

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL		1. WELL NAME and NUMBER NBU 921-2532CS
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		3. FIELD OR WILDCAT NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. OPERATOR PHONE 720 929-6007
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217		9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UO 1194 ST	11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
13. NAME OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>	19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2601 FSL 2596 FEL	NWSE	25	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	2310 FSL 2410 FEL	NWSE	25	9.0 S	21.0 E	S
At Total Depth	2310 FSL 2410 FEL	NWSE	25	9.0 S	21.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 2310	23. NUMBER OF ACRES IN DRILLING UNIT 1083
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 375	26. PROPOSED DEPTH MD: 9618 TVD: 9593
27. ELEVATION - GROUND LEVEL 4930	28. BOND NUMBER 22013542	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 08/17/2010	EMAIL gnbregulatory@anadarko.com
API NUMBER ASSIGNED 43047512760000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9618		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9618	11.6			

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2350		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	2350	28.0			

NBU 921-25J2CS

Pad: NBU 921-25J2

Surface: 2,601' FSL 2,596' FEL (NW/4SE/4)

BHL: 2,310' FSL 2,410' FEL (NW/4SE/4)

Section 25 T9S R21E

Uintah County, Utah

Mineral Lease: UO 1194 ST

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,433'	
Birds Nest	1,722'	Water
Mahogany	2,100'	Water
Wasatch	4,681'	Gas
Mesaverde	7,364'	Gas
MVU2	8,268'	Gas
MVL1	8,823'	Gas
TVD	9,593'	
TD	9,618'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 9,593' TVD, approximately equals 6,076 psi (calculated at 0.63 psi/foot).

Maximum anticipated surface pressure equals approximately 3,966 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,350	28.00	IJ-55	LTC	0.83	1.71	5.24
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9,618	11.60	I-80	BTC	1.91	1.03	2.86

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.29

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.4 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,966 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.4 ppg)

0.63 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 6,076 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD	
SURFACE	TAIL	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15	
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15	
			+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized						
Option 2	LEAD	1,850'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00	3.82	
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15	
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15	
PRODUCTION	LEAD	4,178'	Premium Lite II +0.25 pps	300	10%	11.00	3.38	
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	5,440'	50/50 Poz/G + 10% salt + 2% gel	1,050	10%	14.30	1.31	
			+ 0.1% R-3					

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Emile Goodwin

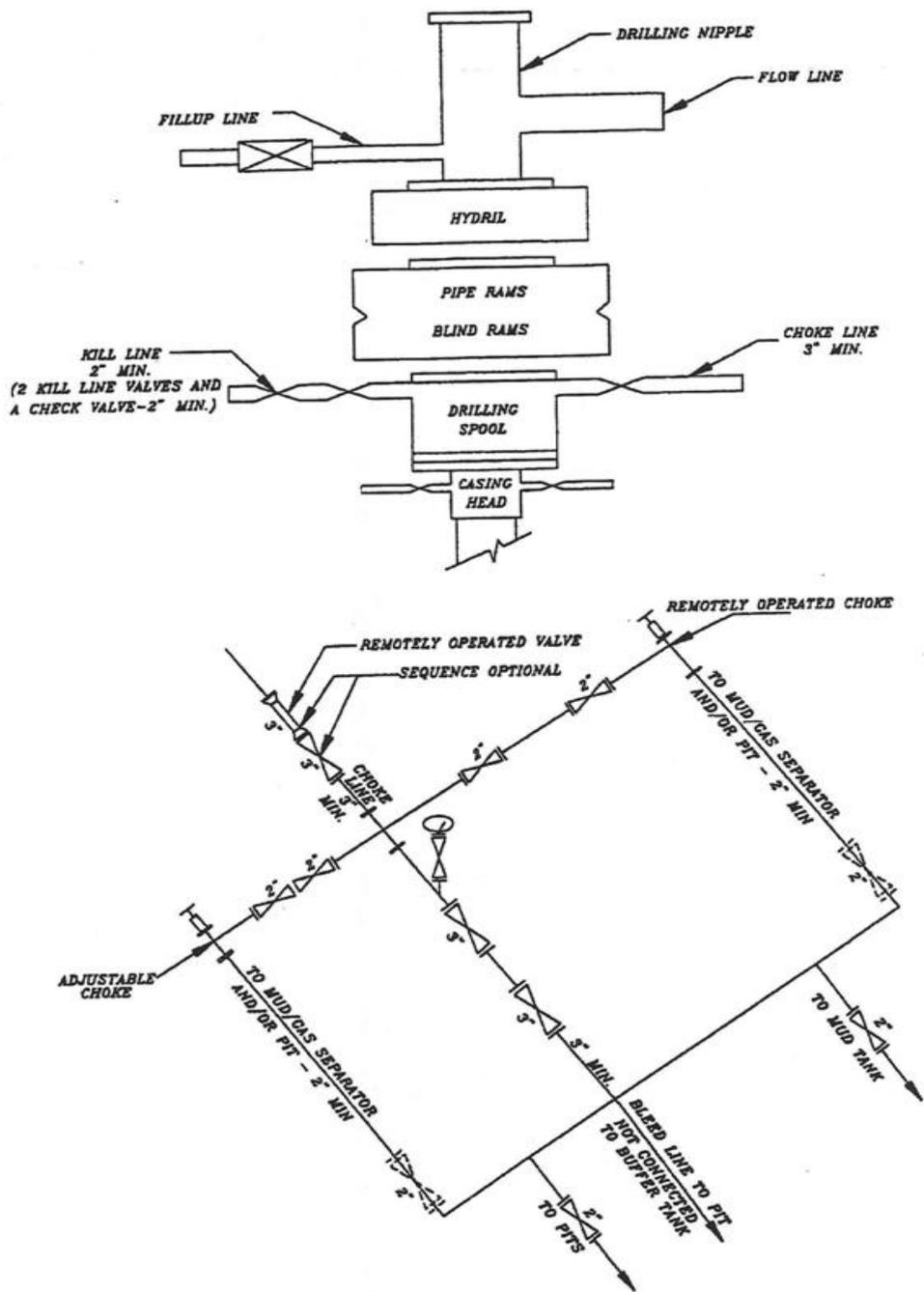
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

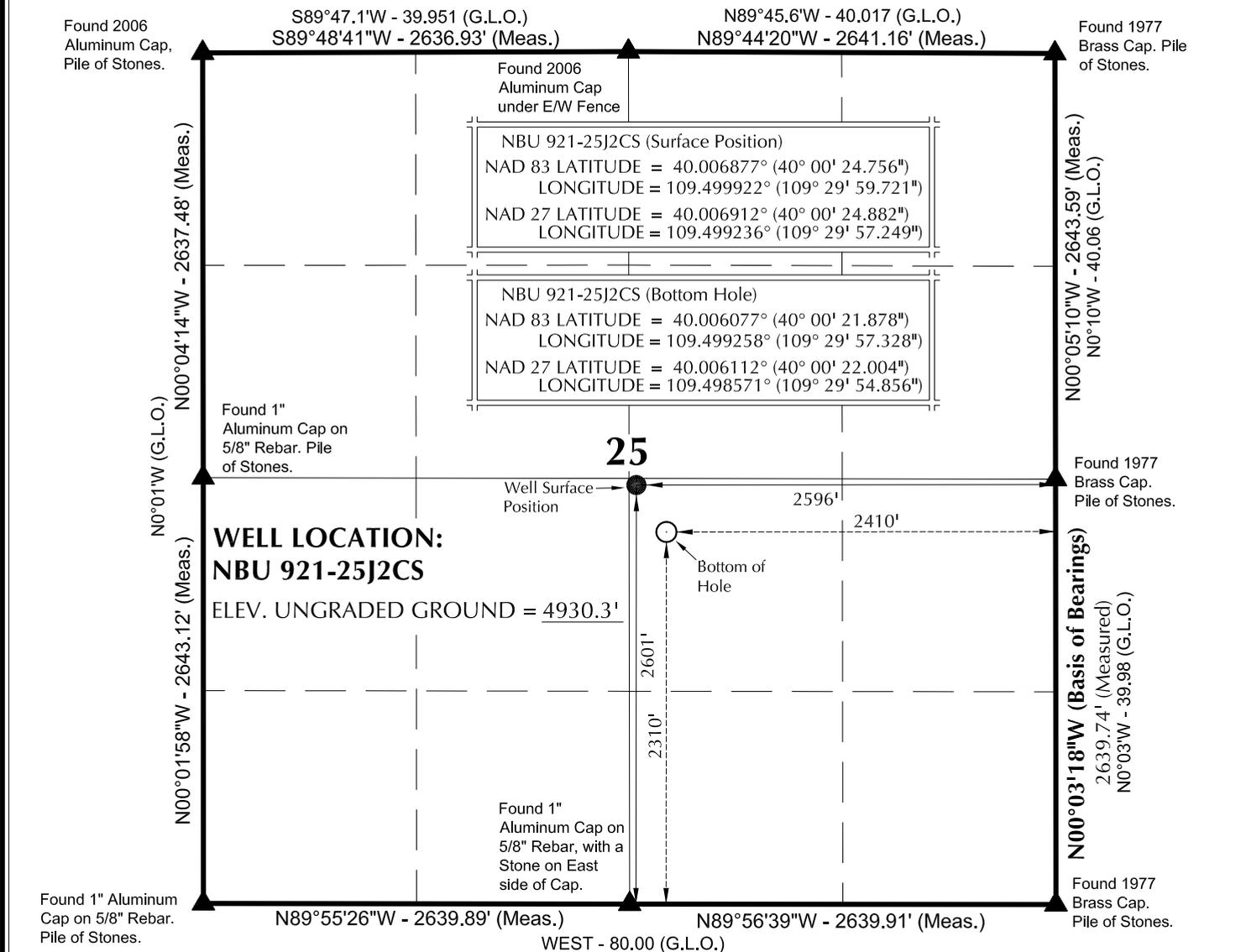
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EXHIBIT A NBU 921-25J2CS



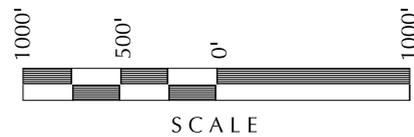
SCHMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R21E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- 3. The Bottom of hole bears S32°34'35"E 345.75' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John R. Slough
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 921-25J2

NBU 921-25J2CS
WELL PLAT

2310' FSL, 2410' FEL (Bottom Hole)
NW ¼ SE ¼ OF SECTION 25, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.



609 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

TIMBERLINE

(435) 789-1365

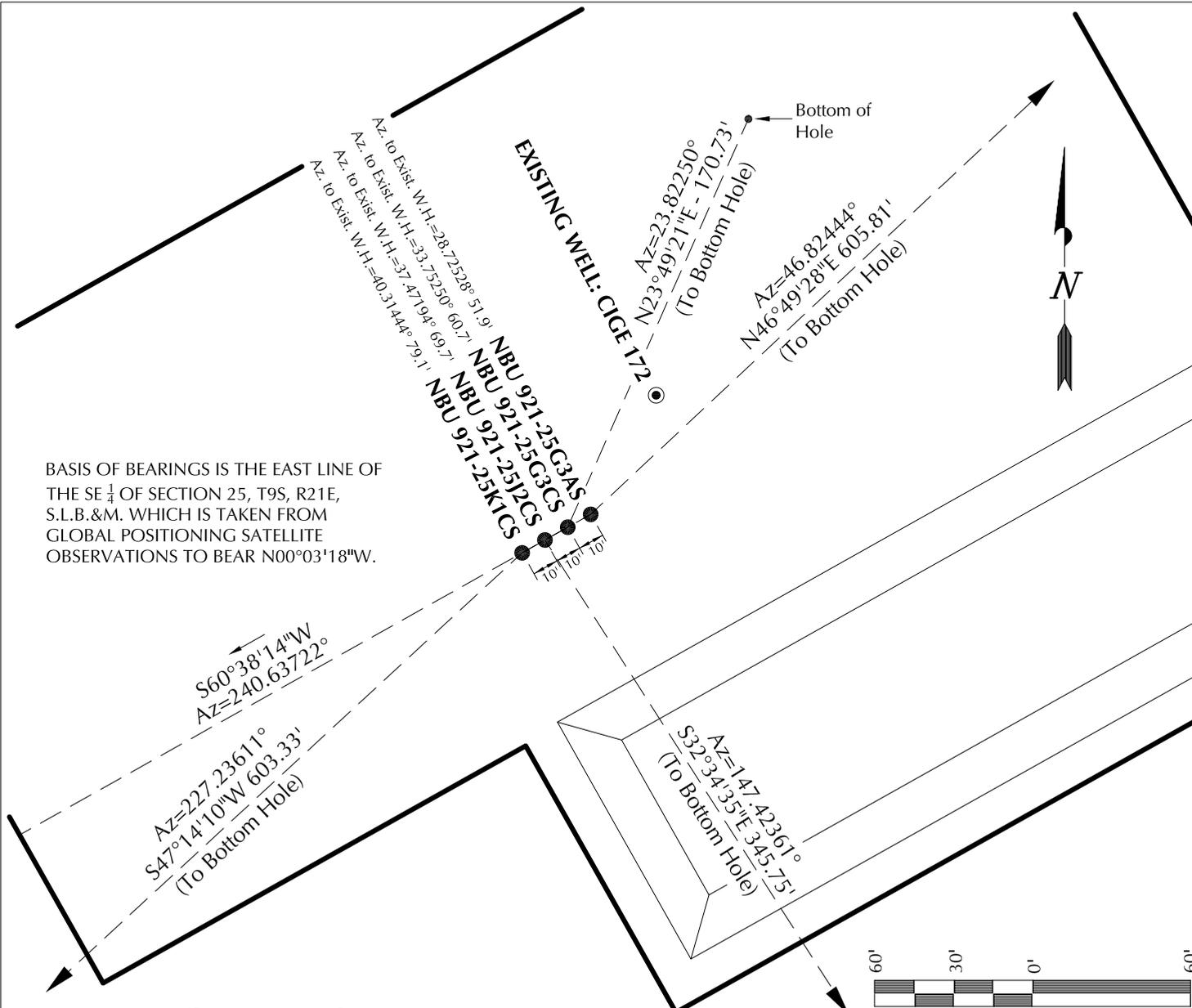
ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 04-08-10	SURVEYED BY: M.S.B.	SHEET NO: 2
DATE DRAWN: 04-12-10	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised: 06-09-10 K.O.B.	2 OF 16

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-25K1CS	40°00'24.707" 40.006863°	109°29'59.833" 109.499954°	40°00'24.833" 40.006898°	109°29'57.361" 109.499267°	2596' FSL 2605' FEL	40°00'20.658" 40.005738°	109°30'05.521" 109.501534°	40°00'20.784" 40.005773°	109°30'03.049" 109.500847°	2186' FSL 2231' FWL
NBU 921-25J2CS	40°00'24.756" 40.006877°	109°29'59.721" 109.499922°	40°00'24.882" 40.006912°	109°29'57.249" 109.499236°	2601' FSL 2596' FEL	40°00'21.878" 40.006077°	109°29'57.328" 109.499258°	40°00'22.004" 40.006112°	109°29'54.856" 109.498571°	2310' FSL 2410' FEL
NBU 921-25G3CS	40°00'24.804" 40.006890°	109°29'59.609" 109.499891°	40°00'24.930" 40.006925°	109°29'57.137" 109.499205°	2606' FSL 2587' FEL	40°00'26.347" 40.007319°	109°29'58.724" 109.499646°	40°00'26.474" 40.007354°	109°29'56.252" 109.498959°	2530' FNL 2518' FEL
NBU 921-25G3AS	40°00'24.853" 40.006904°	109°29'59.496" 109.499860°	40°00'24.979" 40.006939°	109°29'57.025" 109.499174°	2611' FSL 2578' FEL	40°00'28.950" 40.008042°	109°29'53.822" 109.498284°	40°00'29.076" 40.008077°	109°29'51.351" 109.497597°	2265' FNL 2136' FEL
CIGE 172	40°00'25.303" 40.007029°	109°29'59.176" 109.499771°	40°00'25.429" 40.007064°	109°29'56.704" 109.499085°	2636' FNL 2553' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-25K1CS	-409.7'	-442.9'	NBU 921-25J2CS	-291.4'	186.2'	NBU 921-25G3CS	156.2'	69.0'	NBU 921-25G3AS	414.5'	441.8'



BASIS OF BEARINGS IS THE EAST LINE OF THE SE ¼ OF SECTION 25, T9S, R21E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°03'18\"/>

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25J2

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-25K1CS, NBU 921-25J2CS, NBU 921-25G3CS & NBU 921-25G3AS LOCATED IN SECTION 25, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

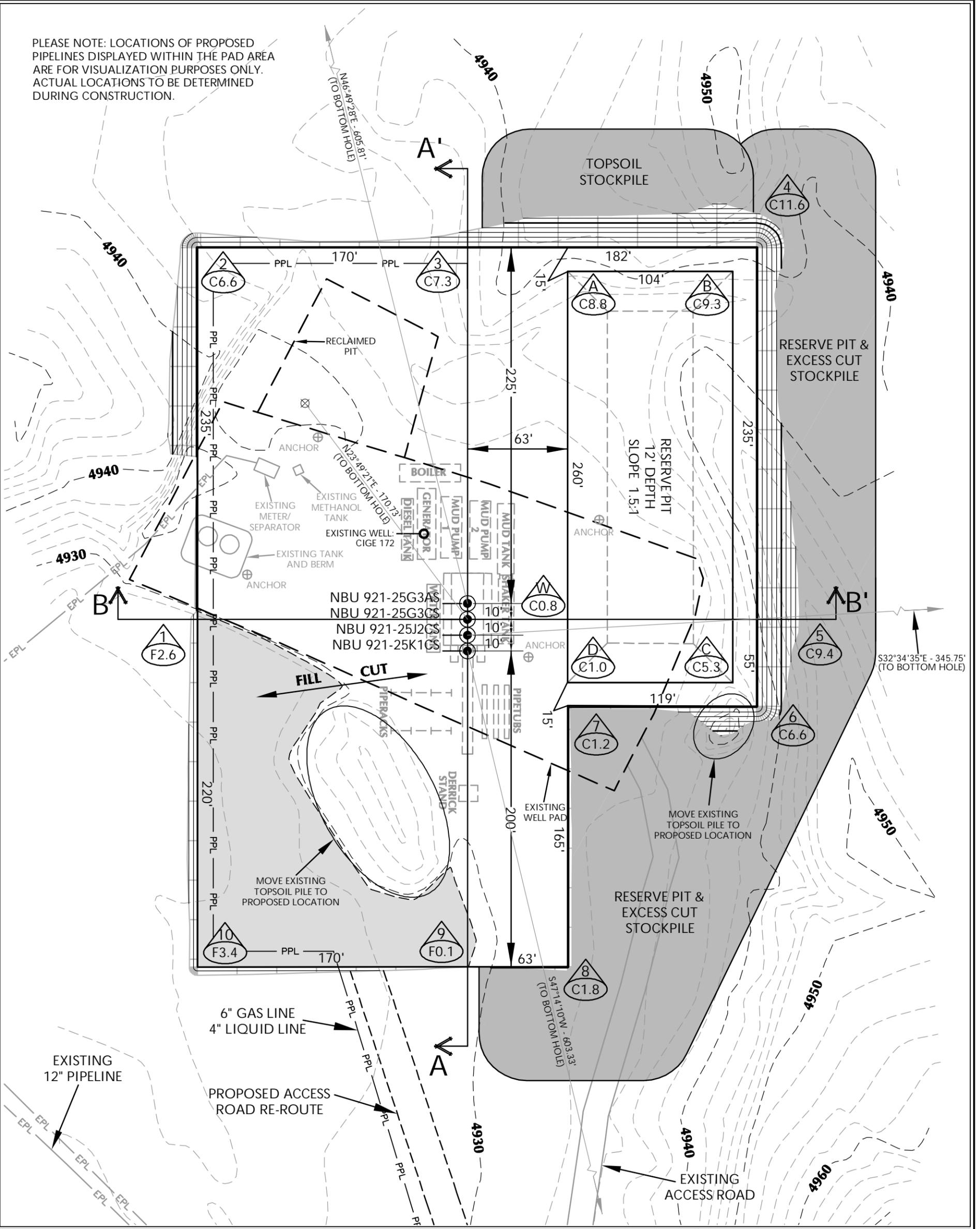


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Fax 307-674-0182

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ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 04-08-10	SURVEYED BY: M.S.B.	SHEET NO: 5
DATE DRAWN: 04-12-10	DRAWN BY: M.W.W.	
SCALE: 1" = 60'	Date Last Revised: 06-09-10 K.O.B.	5 OF 16

PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



WELL PAD - NBU 921-25J2 DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4930.4'
 FINISHED GRADE ELEVATION = 4929.6'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.59 ACRES
 TOTAL DAMAGE AREA = 6.69 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25J2

WELL PAD - LOCATION LAYOUT
 NBU 921-25K1CS, NBU 921-25J2CS,
 NBU 921-25G3CS & NBU 921-25G3AS,
 LOCATED IN SECTION 25, T9S, R21E
 S.L.B.&M., UINAH COUNTY, UTAH

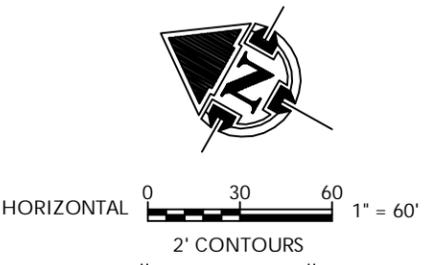


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WELL PAD QUANTITIES
 TOTAL CUT FOR WELL PAD = 14,665 C.Y.
 TOTAL FILL FOR WELL PAD = 2,439 C.Y.
 TOPSOIL @ 6" DEPTH = 2,099 C.Y.
 EXCESS MATERIAL = 12,226 C.Y.

RESERVE PIT QUANTITIES
 TOTAL CUT FOR RESERVE PIT
 +/- 9,300 CY
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 35,480 BARRELS

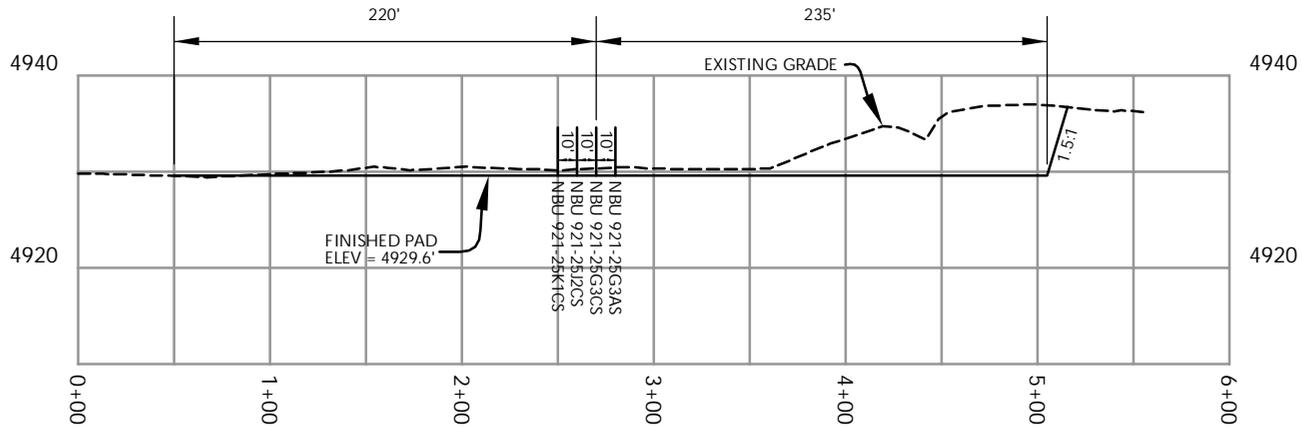
- WELL PAD LEGEND**
- EXISTING WELL LOCATION
 - PROPOSED WELL LOCATION
 - PROPOSED BOTTOM HOLE LOCATION
 - EXISTING CONTOURS (2' INTERVAL)
 - PROPOSED CONTOURS (2' INTERVAL)
 - PROPOSED PIPELINE
 - EXISTING PIPELINE



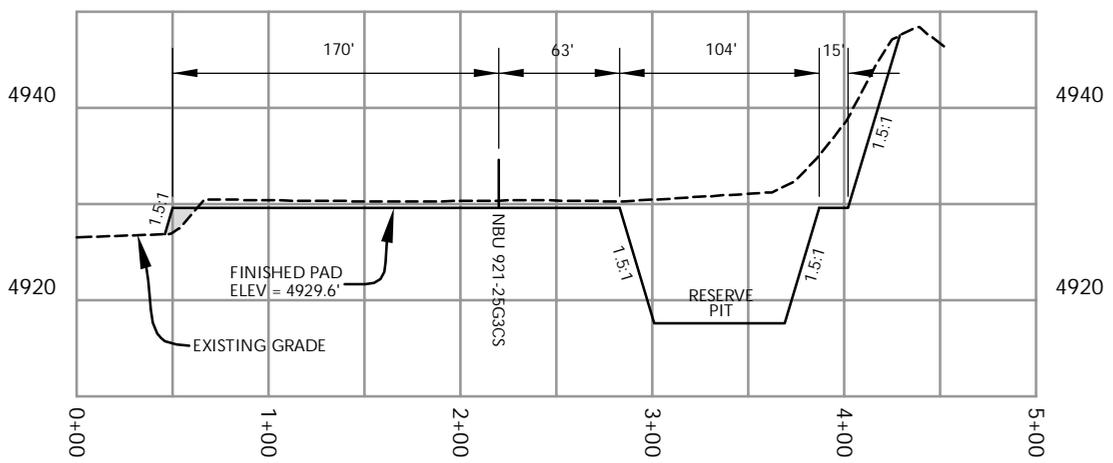
TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' Date: 5/12/10 SHEET NO:
 REVISED: SEA 7/7/10 **6** 6 OF 16

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CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

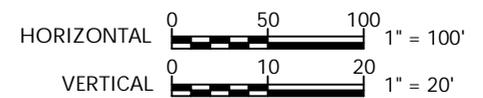
WELL PAD - NBU 921-25J2
 WELL PAD - CROSS SECTIONS
 NBU 921-25K1CS, NBU 921-25J2CS,
 NBU 921-25G3CS & NBU 921-25G3AS
 LOCATED IN SECTION 25, T9S, R21E,
 S.L.B.&M., Uintah County, Utah



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 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

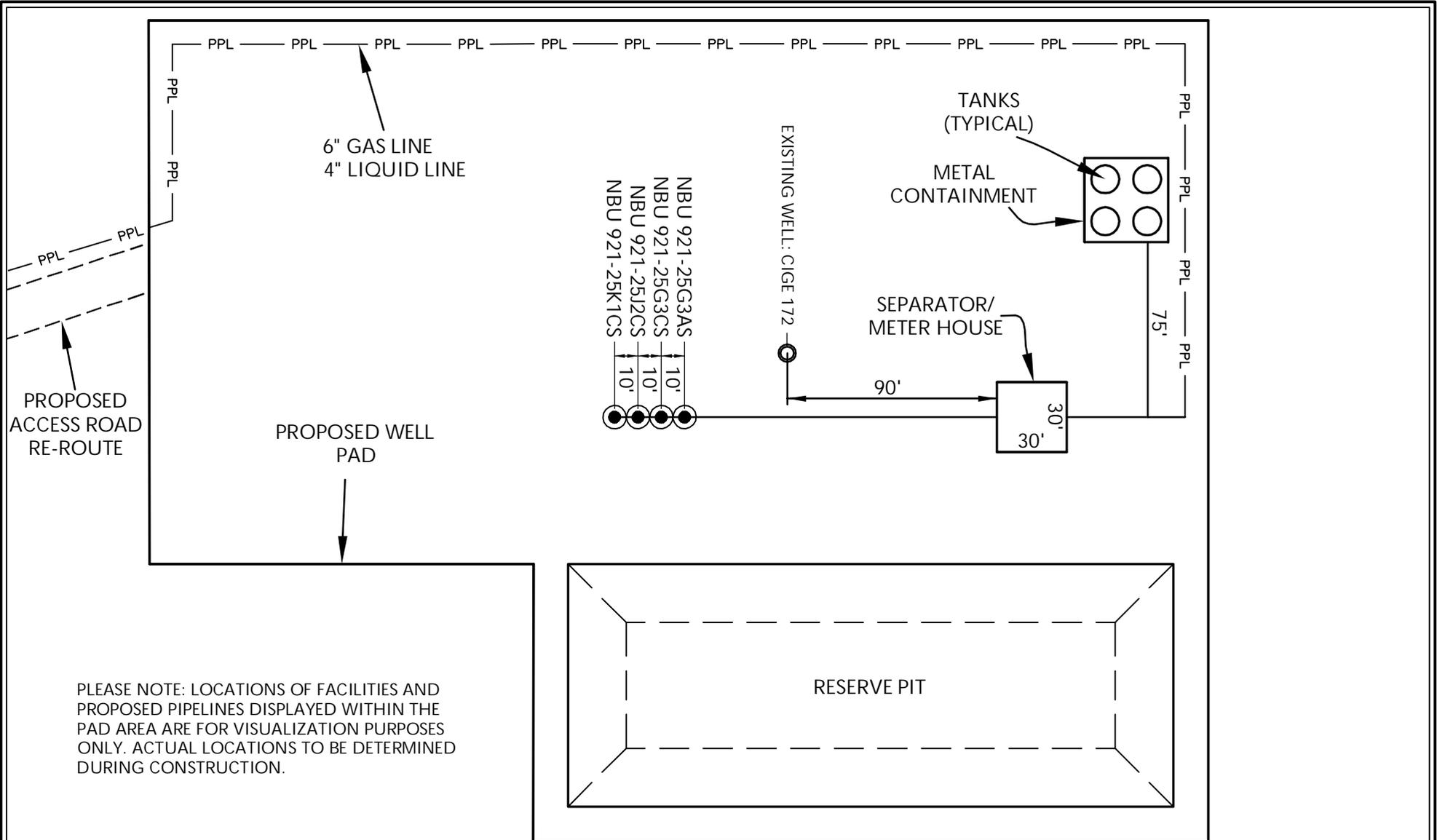


Scale: 1"=100'
 Date: 5/12/10
 Revised: SEA 7/1/10

SHEET NO:
7
 7 OF 16

API Well No: 43047512760000
 K:\AR\AR\KOA\2010_34_NBU_FOCUS_SEC_921-25\DWG\NBU_921-25J2_20100613.dwg

K:\MADARCO\2010_34_NBU_FOCUS_SEC_921-25\DWG\NBU_921-25J2_20100603.dwg, 7/7/2010 2:58:05 PM



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25J2

WELL PAD - FACILITIES DIAGRAM
NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS,
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED PIPELINE
- EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' Date: 5/12/10
REVISED: SEA 7/7/10

SHEET NO:
8
8 OF 16

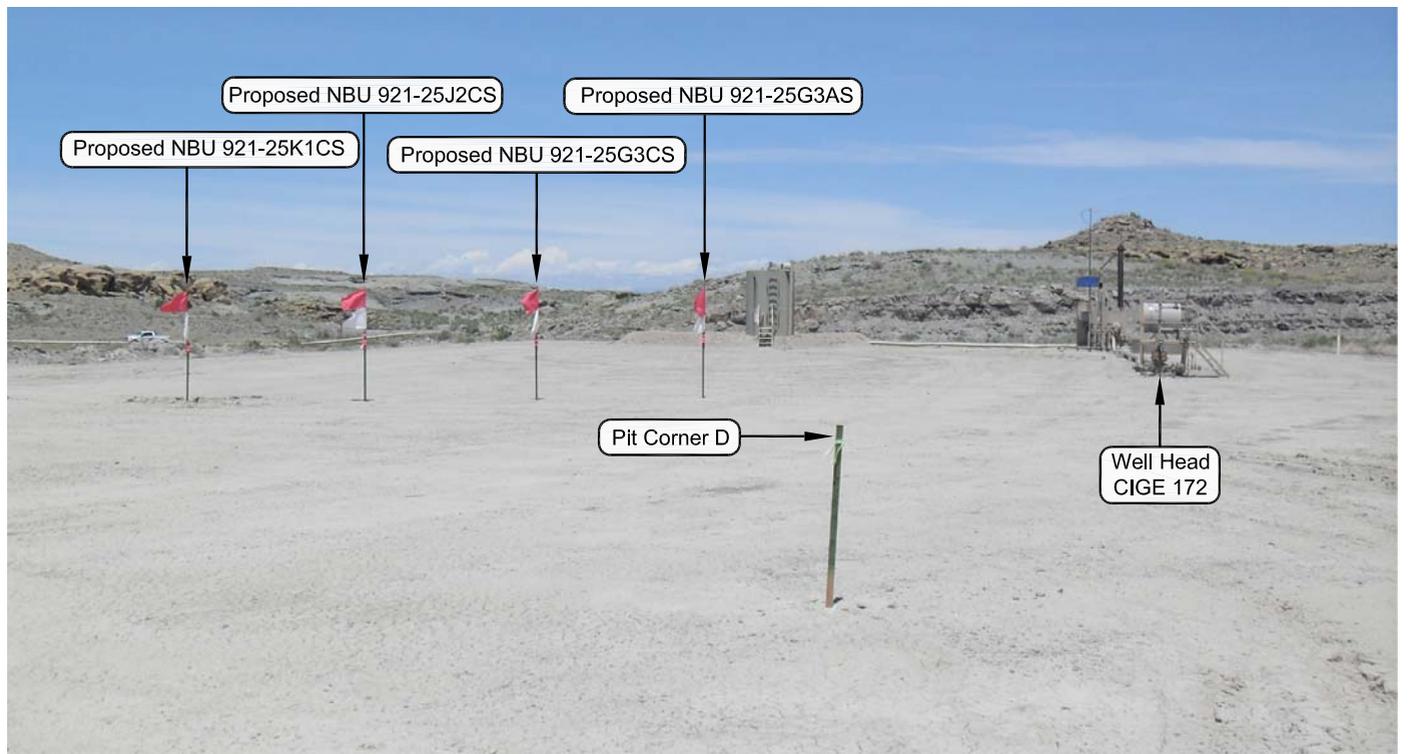


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25J2

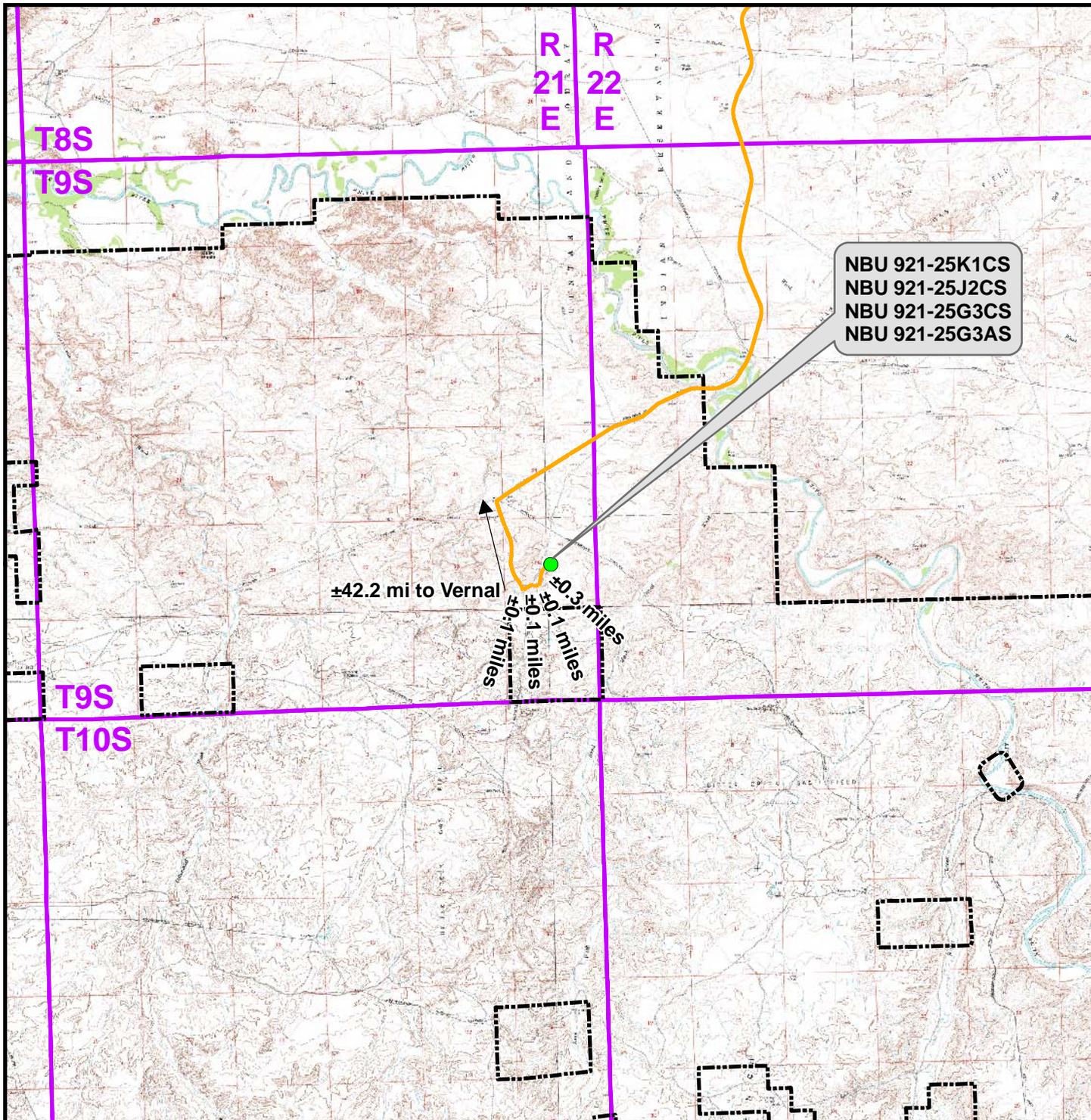
LOCATION PHOTOS
 NBU 921-25K1CS, NBU 921-25J2CS,
 NBU 921-25G3CS & NBU 921-25G3AS
 LOCATED IN SECTION 25, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



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TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 04-08-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 9 9 OF 16
DATE DRAWN: 04-12-10	DRAWN BY: M.W.W.	
Date Last Revised: 06-09-10 K.O.B.		



NBU 921-25K1CS
 NBU 921-25J2CS
 NBU 921-25G3CS
 NBU 921-25G3AS

±42.2 mi to Vernal
 ±0.1 miles
 ±0.1 miles
 ±0.3 miles

Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 921-25J2 To Unit Boundary: ±2,596ft

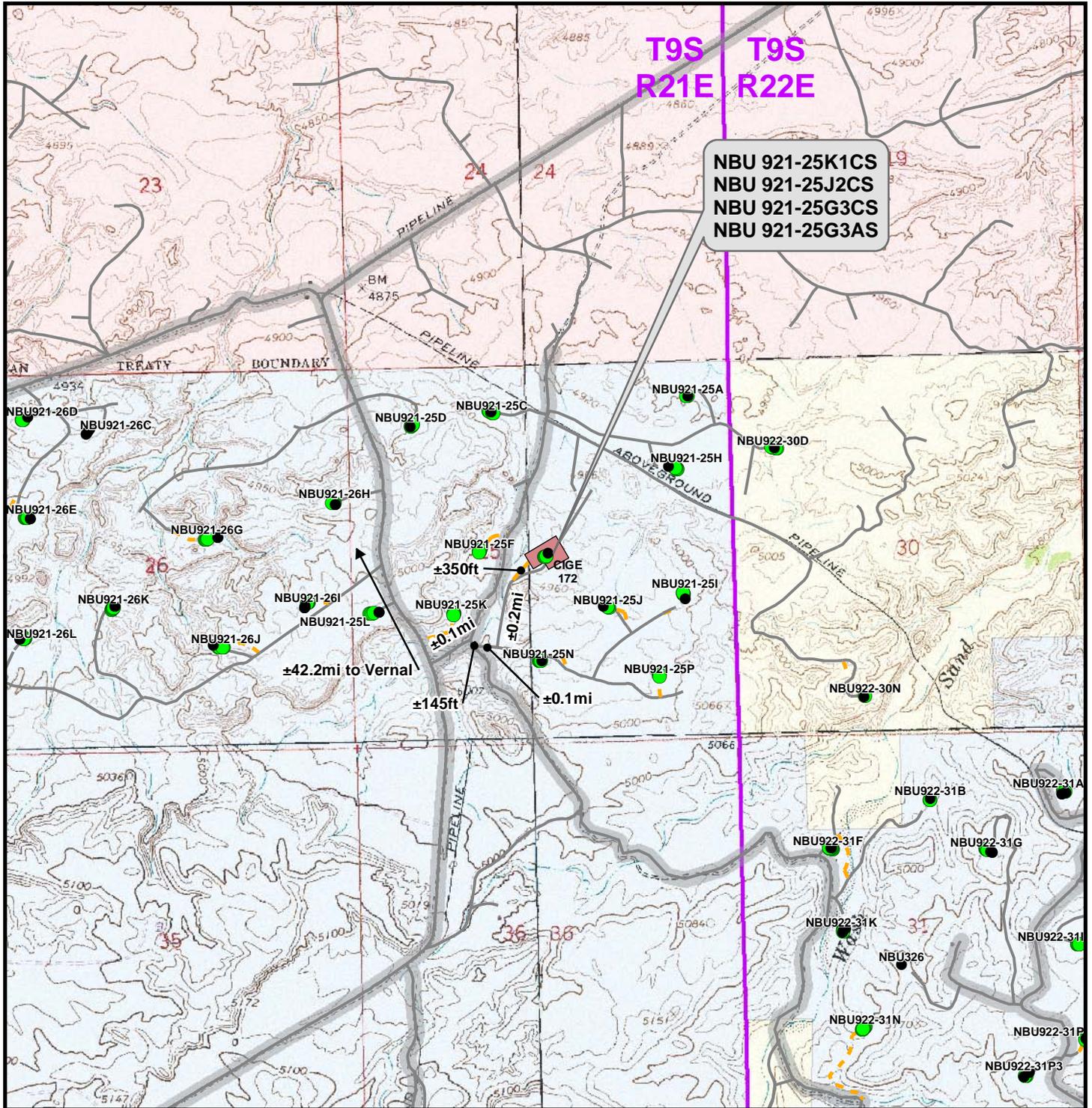
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25J2

TOPO A
 NBU 921-25K1CS, NBU 921-25J2CS,
 NBU 921-25G3CS & NBU 921-25G3AS
 LOCATED IN SECTION 25, T9S, R21E
 S.L.B.&M., UINAH COUNTY, UTAH



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 14 May 2010	10
Revised: CPS	Date: 7 July 2010	



**NBU 921-25K1CS
NBU 921-25J2CS
NBU 921-25G3CS
NBU 921-25G3AS**

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- State
- Indian Reservation
- Private

Total Proposed Road Re-Route Length: ±350ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25J2

TOPO B

**NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UTAH COUNTY, UTAH**

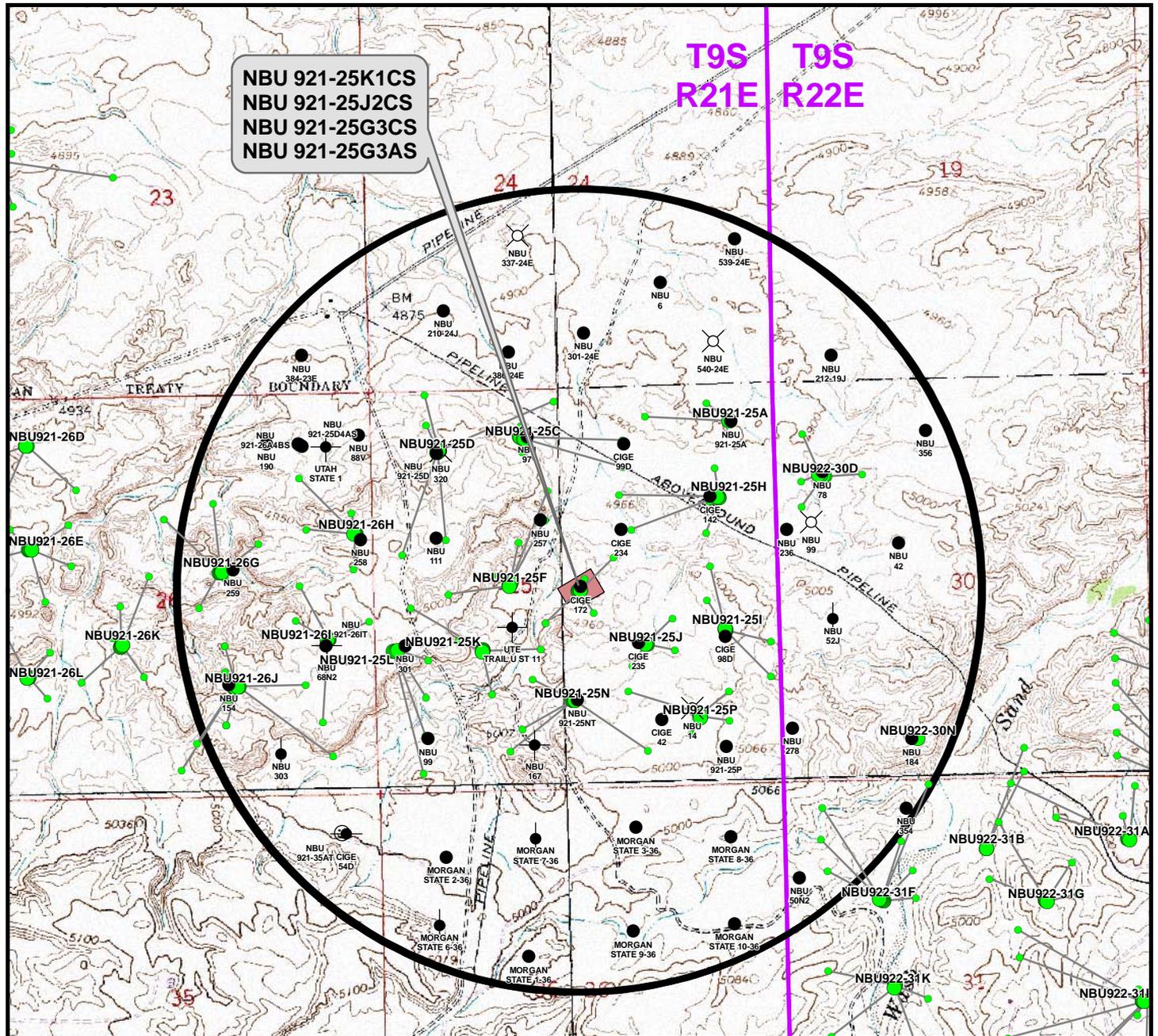


CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: CPS	Date: 14 May 2010
Revised: CPS	Date: 7 July 2010

Sheet No:
11 11 of 16



Proposed Well	Nearest Well Bore	Footage
NBU 921-25K1CS	UTE TRAIL U ST 11	440ft
NBU 921-25J2CS	CIGE 172	375ft
NBU 921-25G3CS	CIGE 172	111ft
NBU 921-25G3AS	CIGE 234	381ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Producing
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)
- Active
- Spudded (Drilling commenced; Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25J2

TOPO C

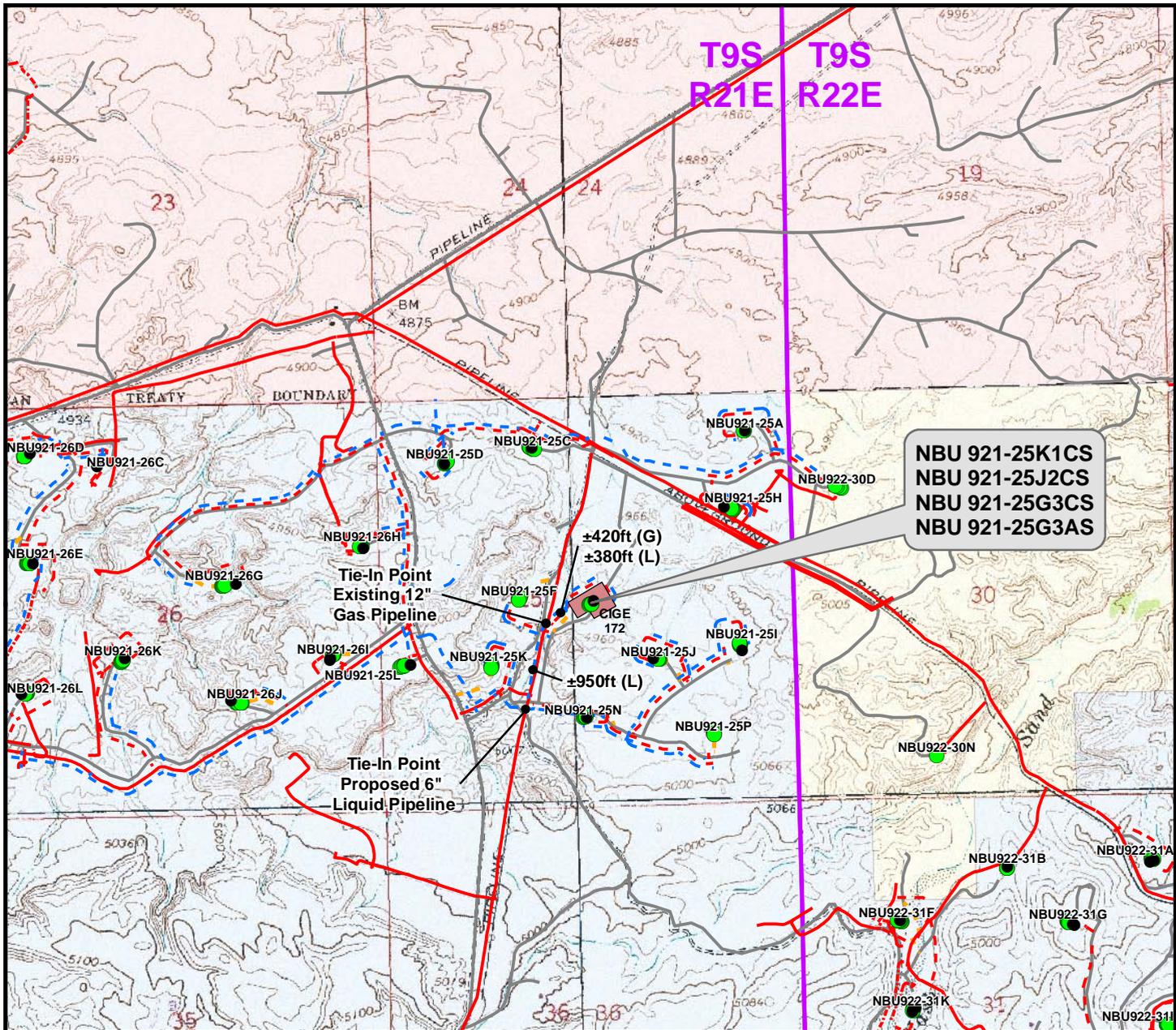
**NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UINTAH COUNTY, UTAH**



609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 14 May 2010	12
Revised: JFE	Date: 7 July 2010	



Proposed Liquid Pipeline	Length
Proposed 4" (Meter House to Edge of Pad)	±770ft
Proposed 4" (Edge of Pad to Main Road Intersection)	±1,330ft
TOTAL PROPOSED LIQUID PIPELINE =	± 2,100ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±770ft
Proposed 6" (Edge of Pad to Existing 12" Pipeline)	±420ft
TOTAL PROPOSED GAS PIPELINE =	±1,190ft

Legend

- Well - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed Bureau of Land Management
- Well - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - To Be Upgraded - - - Road - Existing Indian Reservation
- Well Pad - - - Gas Pipeline - Existing - - - Liquid Pipeline - Existing State
- Private

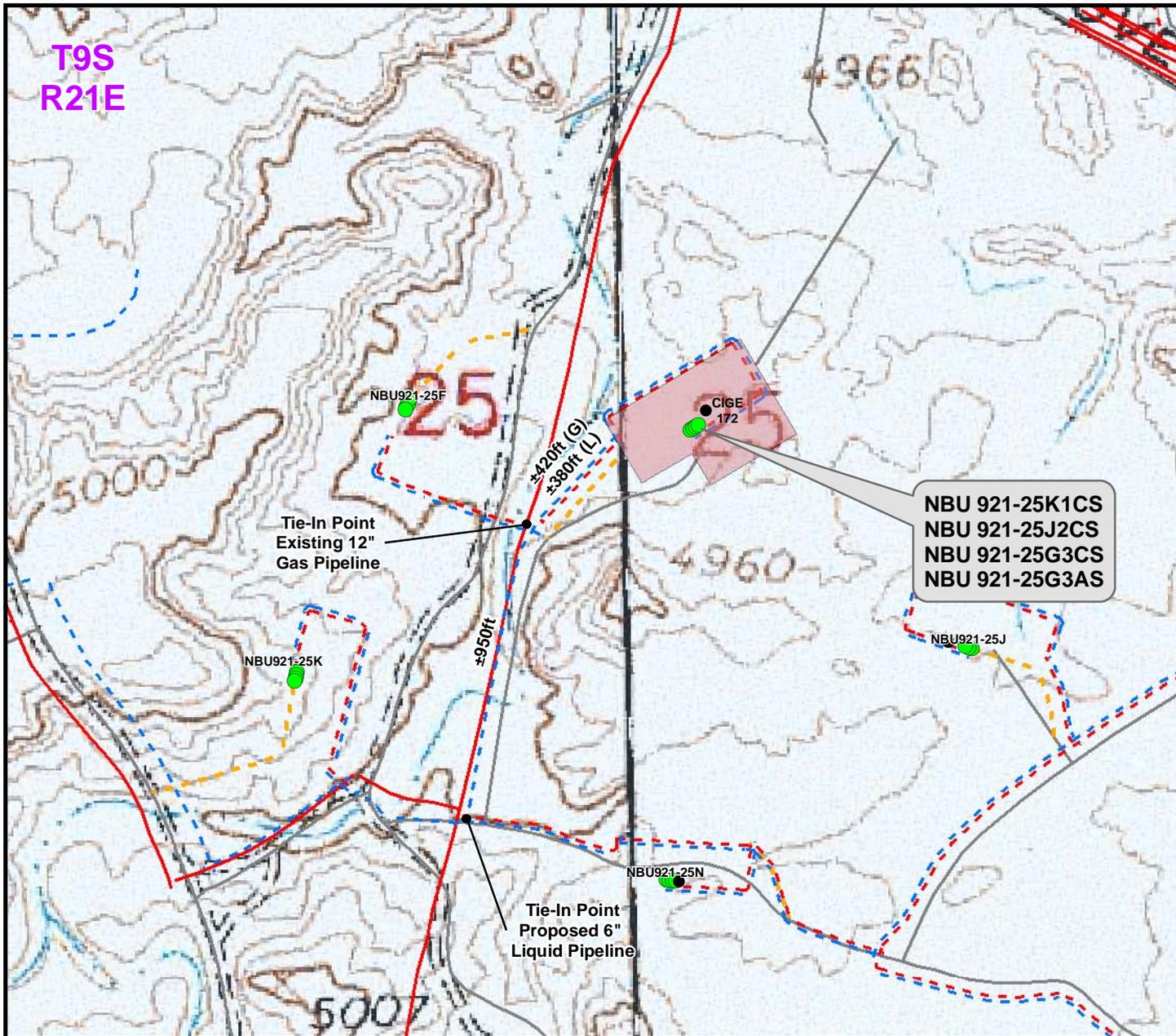
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25J2

TOPO D
 NBU 921-25K1CS, NBU 921-25J2CS,
 NBU 921-25G3CS & NBU 921-25G3AS
 LOCATED IN SECTION 25, T9S, R21E
 S.L.B.&M., UTAH COUNTY, UTAH

609
 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 14 May 2010	13 13 of 16
Revised: CPS	Date: 7 July 2010	



Proposed Liquid Pipeline	Length
Proposed 4" (Meter House to Edge of Pad)	±770ft
Proposed 4" (Edge of Pad to Main Road Intersection)	±1,330ft
TOTAL PROPOSED LIQUID PIPELINE =	± 2,100ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±770ft
Proposed 6" (Edge of Pad to Existing 12" Pipeline)	±420ft
TOTAL PROPOSED GAS PIPELINE =	±1,190ft

Legend

- Well - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed Bureau of Land Management
- Well - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - To Be Upgraded - - - Road - Existing Indian Reservation
- Well Pad - - - Gas Pipeline - Existing - - - Liquid Pipeline - Existing - - - Private

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

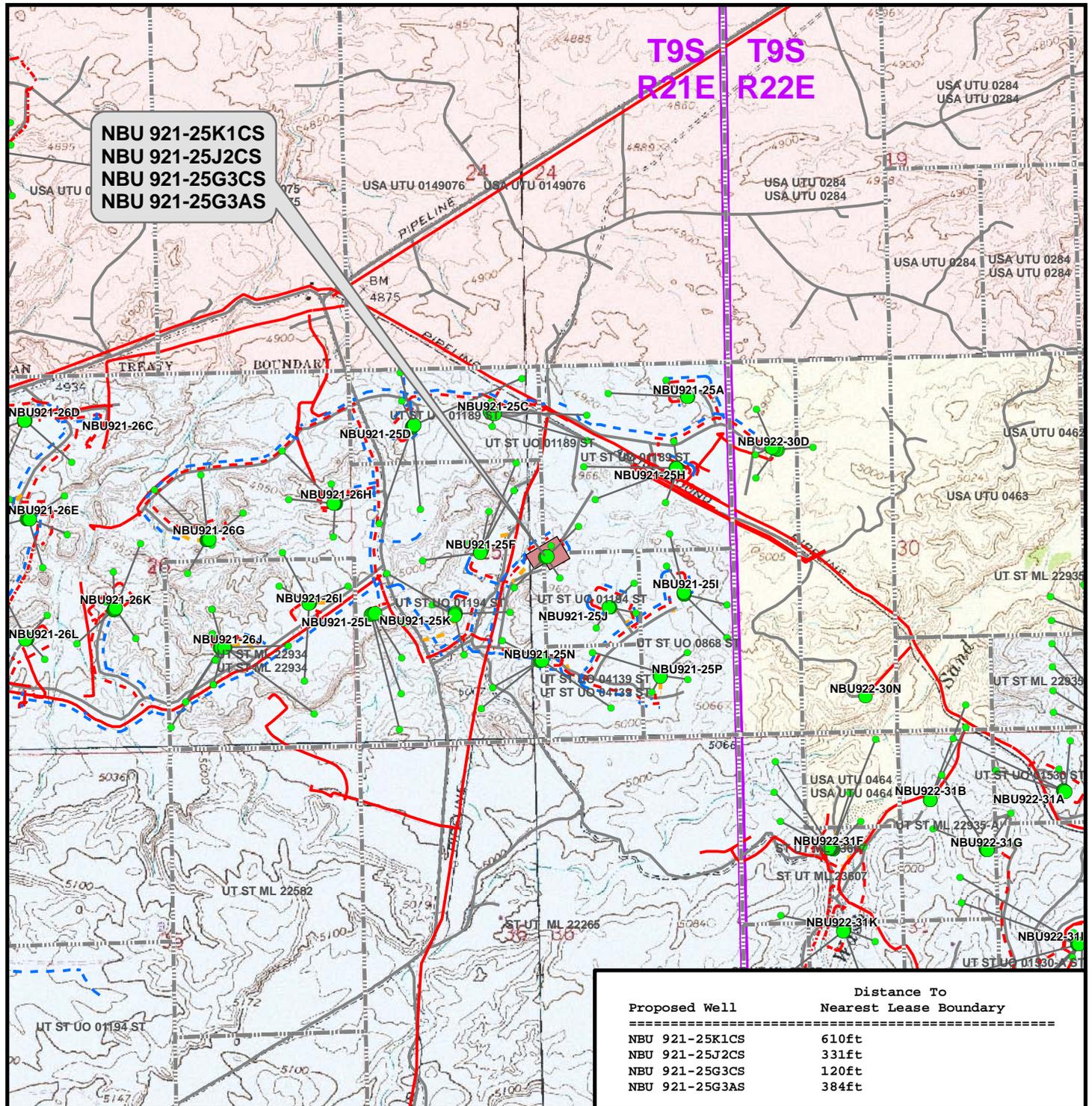
WELL PAD - NBU 921-25J2

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 921-25K1CS, NBU 921-25J2CS,
 NBU 921-25G3CS & NBU 921-25G3AS
 LOCATED IN SECTION 25, T9S, R21E
 S.L.B.&M., UINTAH COUNTY, UTAH

609
 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 14 May 2010	14 14 of 16
Revised: CPS	Date: 7 July 2010	



**NBU 921-25K1CS
NBU 921-25J2CS
NBU 921-25G3CS
NBU 921-25G3AS**

T9S R21E R22E

Proposed Well	Distance To Nearest Lease Boundary
NBU 921-25K1CS	610ft
NBU 921-25J2CS	331ft
NBU 921-25G3CS	120ft
NBU 921-25G3AS	384ft

Legend

- Well - Proposed
- Well Pad
- - - Gas Pipeline - Proposed
- - - Liquid Pipeline - Proposed
- - - Road - Proposed
- Bureau of Land Management
- Bottom Hole - Proposed
- ▭ Lease Boundary
- - - Gas Pipeline - To Be Upgraded
- - - Liquid Pipeline - To Be Upgraded
- - - Road - Existing
- Indian Reservation
- Well Path
- Gas Pipeline - Existing
- Liquid Pipeline - Existing
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25J2

TOPO E
NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UINTAH COUNTY, UTAH

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CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: CPS	Date: 14 May 2010
Revised: CPS	Date: 7 July 2010

Sheet No:
15 15 of 16

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-25J2
WELLS – NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
Section 25, T9S, R21E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 145 feet to a service road to the east. Exit left and proceed in an easterly direction along service road approximately 0.1 miles to a second service road to the north. Exit left and proceed in a northerly direction along second service road approximately 0.3 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 42.7 miles in a southerly direction.

WELL DETAILS: NBU 921-25J2CS

GL 4930 & RKB 14
 @ 4944.00ft ASSUMED

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14532100.18	2060684.15	40° 0' 24.883 N	109° 29' 57.250 W

DESIGN TARGET DETAILS

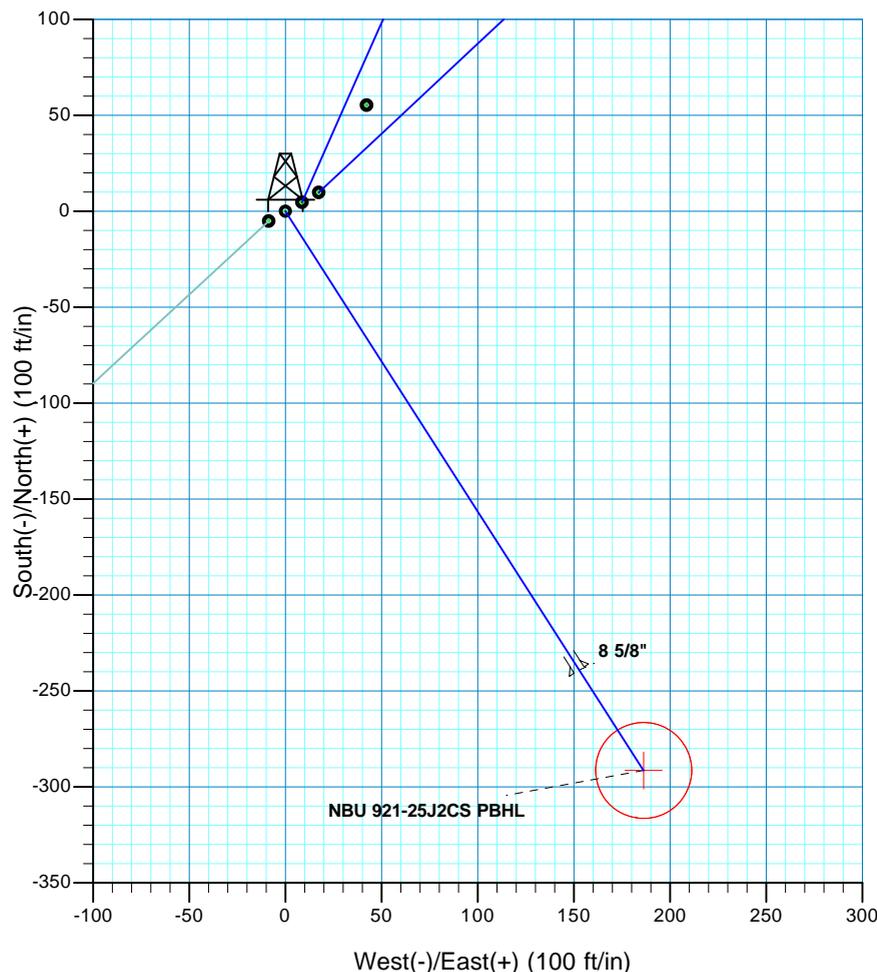
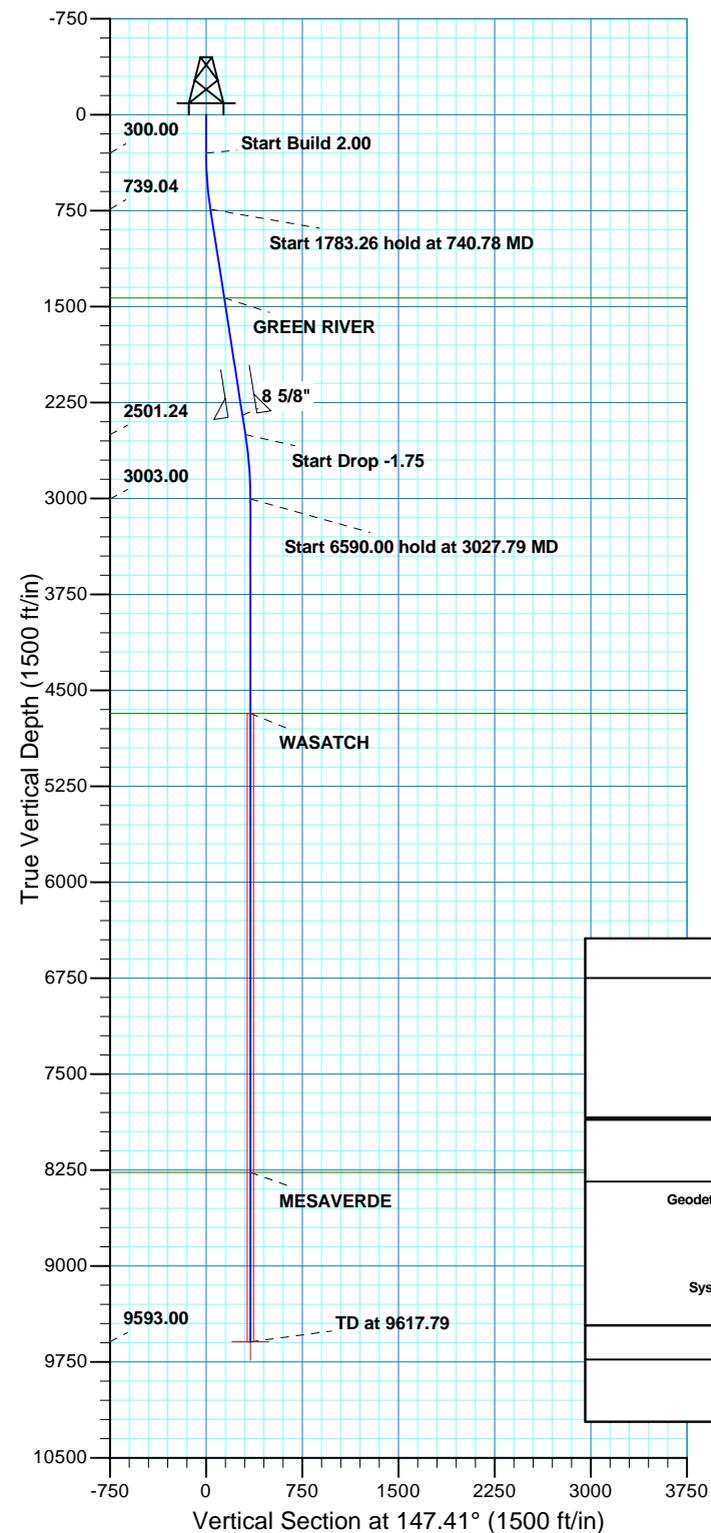
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9593.00	-291.37	186.26	14531811.99	2060875.29	40° 0' 22.003 N	109° 29' 54.856 W	Circle (Radius: 25.00)

- plan hits target center



Azimuths to True North
 Magnetic North: 11.18°

Magnetic Field
 Strength: 52416.9snT
 Dip Angle: 65.90°
 Date: 08/12/2010
 Model: IGRF2010



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
740.78	8.82	147.41	739.04	-28.51	18.23	2.00	147.41	33.84	
2524.04	8.82	147.41	2501.24	-258.78	165.43	0.00	0.00	307.14	
3027.79	0.00	0.00	3003.00	-291.37	186.26	1.75	180.00	345.81	
9617.79	0.00	0.00	9593.00	-291.37	186.26	0.00	0.00	345.81	NBU 921-25J2CS PBHL

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 Location: SEC 25 T9S R21E
 System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1433.00	1443.03	GREEN RIVER
4681.00	4705.79	WASATCH
8268.00	8292.79	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2350.00	2371.00	8 5/8"	8.625

Plan: PLAN #1 (NBU 921-25J2CS/OH)

Created By: RobertScott Date: 15:05, August 12 2010



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 921-25J2 Pad

NBU 921-25J2CS

OH

Plan: PLAN #1

Standard Planning Report

12 August, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25J2CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25J2CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-25J2 Pad, SEC 25 T9S R21E				
Site Position:		Northing:	14,532,105.07 usft	Latitude:	40° 0' 24.930 N
From:	Lat/Long	Easting:	2,060,692.75 usft	Longitude:	109° 29' 57.138 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.97 °

Well	NBU 921-25J2CS, 2601' FSL 2596' FEL					
Well Position	+N/-S	-4.73 ft	Northing:	14,532,100.19 usft	Latitude:	40° 0' 24.883 N
	+E/-W	-8.68 ft	Easting:	2,060,684.15 usft	Longitude:	109° 29' 57.250 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	0.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/12/2010	11.18	65.90	52,417

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	147.41

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
740.78	8.82	147.41	739.04	-28.51	18.23	2.00	2.00	0.00	147.41	
2,524.04	8.82	147.41	2,501.24	-258.78	165.43	0.00	0.00	0.00	0.00	
3,027.79	0.00	0.00	3,003.00	-291.37	186.26	1.75	-1.75	0.00	180.00	
9,617.79	0.00	0.00	9,593.00	-291.37	186.26	0.00	0.00	0.00	0.00	NBU 921-25J2CS PB

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25J2CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25J2CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
400.00	2.00	147.41	399.98	-1.47	0.94	1.75	2.00	2.00	0.00	
500.00	4.00	147.41	499.84	-5.88	3.76	6.98	2.00	2.00	0.00	
600.00	6.00	147.41	599.45	-13.22	8.45	15.69	2.00	2.00	0.00	
700.00	8.00	147.41	698.70	-23.49	15.02	27.88	2.00	2.00	0.00	
740.78	8.82	147.41	739.04	-28.51	18.23	33.84	2.00	2.00	0.00	
Start 1783.26 hold at 740.78 MD										
800.00	8.82	147.41	797.56	-36.16	23.12	42.92	0.00	0.00	0.00	
900.00	8.82	147.41	896.38	-49.07	31.37	58.24	0.00	0.00	0.00	
1,000.00	8.82	147.41	995.20	-61.99	39.63	73.57	0.00	0.00	0.00	
1,100.00	8.82	147.41	1,094.02	-74.90	47.88	88.89	0.00	0.00	0.00	
1,200.00	8.82	147.41	1,192.84	-87.81	56.13	104.22	0.00	0.00	0.00	
1,300.00	8.82	147.41	1,291.66	-100.72	64.39	119.55	0.00	0.00	0.00	
1,400.00	8.82	147.41	1,390.48	-113.64	72.64	134.87	0.00	0.00	0.00	
1,443.03	8.82	147.41	1,433.00	-119.19	76.20	141.47	0.00	0.00	0.00	
GREEN RIVER										
1,500.00	8.82	147.41	1,489.29	-126.55	80.90	150.20	0.00	0.00	0.00	
1,600.00	8.82	147.41	1,588.11	-139.46	89.15	165.52	0.00	0.00	0.00	
1,700.00	8.82	147.41	1,686.93	-152.37	97.41	180.85	0.00	0.00	0.00	
1,800.00	8.82	147.41	1,785.75	-165.29	105.66	196.17	0.00	0.00	0.00	
1,900.00	8.82	147.41	1,884.57	-178.20	113.92	211.50	0.00	0.00	0.00	
2,000.00	8.82	147.41	1,983.39	-191.11	122.17	226.82	0.00	0.00	0.00	
2,100.00	8.82	147.41	2,082.21	-204.02	130.43	242.15	0.00	0.00	0.00	
2,200.00	8.82	147.41	2,181.02	-216.94	138.68	257.48	0.00	0.00	0.00	
2,300.00	8.82	147.41	2,279.84	-229.85	146.93	272.80	0.00	0.00	0.00	
2,371.00	8.82	147.41	2,350.00	-239.02	152.79	283.68	0.00	0.00	0.00	
8 5/8"										
2,400.00	8.82	147.41	2,378.66	-242.76	155.19	288.13	0.00	0.00	0.00	
2,500.00	8.82	147.41	2,477.48	-255.67	163.44	303.45	0.00	0.00	0.00	
2,524.04	8.82	147.41	2,501.24	-258.78	165.43	307.14	0.00	0.00	0.00	
Start Drop -1.75										
2,600.00	7.49	147.41	2,576.43	-267.85	171.23	317.91	1.75	-1.75	0.00	
2,700.00	5.74	147.41	2,675.76	-277.55	177.43	329.42	1.75	-1.75	0.00	
2,800.00	3.99	147.41	2,775.40	-284.69	181.99	337.89	1.75	-1.75	0.00	
2,900.00	2.24	147.41	2,875.24	-289.27	184.92	343.32	1.75	-1.75	0.00	
3,000.00	0.49	147.41	2,975.21	-291.27	186.20	345.70	1.75	-1.75	0.00	
3,027.79	0.00	0.00	3,003.00	-291.37	186.26	345.81	1.75	-1.75	0.00	
Start 6590.00 hold at 3027.79 MD										
3,100.00	0.00	0.00	3,075.21	-291.37	186.26	345.81	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,175.21	-291.37	186.26	345.81	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,275.21	-291.37	186.26	345.81	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,375.21	-291.37	186.26	345.81	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,475.21	-291.37	186.26	345.81	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,575.21	-291.37	186.26	345.81	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,675.21	-291.37	186.26	345.81	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,775.21	-291.37	186.26	345.81	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25J2CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25J2CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,900.00	0.00	0.00	3,875.21	-291.37	186.26	345.81	0.00	0.00	0.00
4,000.00	0.00	0.00	3,975.21	-291.37	186.26	345.81	0.00	0.00	0.00
4,100.00	0.00	0.00	4,075.21	-291.37	186.26	345.81	0.00	0.00	0.00
4,200.00	0.00	0.00	4,175.21	-291.37	186.26	345.81	0.00	0.00	0.00
4,300.00	0.00	0.00	4,275.21	-291.37	186.26	345.81	0.00	0.00	0.00
4,400.00	0.00	0.00	4,375.21	-291.37	186.26	345.81	0.00	0.00	0.00
4,500.00	0.00	0.00	4,475.21	-291.37	186.26	345.81	0.00	0.00	0.00
4,600.00	0.00	0.00	4,575.21	-291.37	186.26	345.81	0.00	0.00	0.00
4,700.00	0.00	0.00	4,675.21	-291.37	186.26	345.81	0.00	0.00	0.00
4,705.79	0.00	0.00	4,681.00	-291.37	186.26	345.81	0.00	0.00	0.00
WASATCH									
4,800.00	0.00	0.00	4,775.21	-291.37	186.26	345.81	0.00	0.00	0.00
4,900.00	0.00	0.00	4,875.21	-291.37	186.26	345.81	0.00	0.00	0.00
5,000.00	0.00	0.00	4,975.21	-291.37	186.26	345.81	0.00	0.00	0.00
5,100.00	0.00	0.00	5,075.21	-291.37	186.26	345.81	0.00	0.00	0.00
5,200.00	0.00	0.00	5,175.21	-291.37	186.26	345.81	0.00	0.00	0.00
5,300.00	0.00	0.00	5,275.21	-291.37	186.26	345.81	0.00	0.00	0.00
5,400.00	0.00	0.00	5,375.21	-291.37	186.26	345.81	0.00	0.00	0.00
5,500.00	0.00	0.00	5,475.21	-291.37	186.26	345.81	0.00	0.00	0.00
5,600.00	0.00	0.00	5,575.21	-291.37	186.26	345.81	0.00	0.00	0.00
5,700.00	0.00	0.00	5,675.21	-291.37	186.26	345.81	0.00	0.00	0.00
5,800.00	0.00	0.00	5,775.21	-291.37	186.26	345.81	0.00	0.00	0.00
5,900.00	0.00	0.00	5,875.21	-291.37	186.26	345.81	0.00	0.00	0.00
6,000.00	0.00	0.00	5,975.21	-291.37	186.26	345.81	0.00	0.00	0.00
6,100.00	0.00	0.00	6,075.21	-291.37	186.26	345.81	0.00	0.00	0.00
6,200.00	0.00	0.00	6,175.21	-291.37	186.26	345.81	0.00	0.00	0.00
6,300.00	0.00	0.00	6,275.21	-291.37	186.26	345.81	0.00	0.00	0.00
6,400.00	0.00	0.00	6,375.21	-291.37	186.26	345.81	0.00	0.00	0.00
6,500.00	0.00	0.00	6,475.21	-291.37	186.26	345.81	0.00	0.00	0.00
6,600.00	0.00	0.00	6,575.21	-291.37	186.26	345.81	0.00	0.00	0.00
6,700.00	0.00	0.00	6,675.21	-291.37	186.26	345.81	0.00	0.00	0.00
6,800.00	0.00	0.00	6,775.21	-291.37	186.26	345.81	0.00	0.00	0.00
6,900.00	0.00	0.00	6,875.21	-291.37	186.26	345.81	0.00	0.00	0.00
7,000.00	0.00	0.00	6,975.21	-291.37	186.26	345.81	0.00	0.00	0.00
7,100.00	0.00	0.00	7,075.21	-291.37	186.26	345.81	0.00	0.00	0.00
7,200.00	0.00	0.00	7,175.21	-291.37	186.26	345.81	0.00	0.00	0.00
7,300.00	0.00	0.00	7,275.21	-291.37	186.26	345.81	0.00	0.00	0.00
7,400.00	0.00	0.00	7,375.21	-291.37	186.26	345.81	0.00	0.00	0.00
7,500.00	0.00	0.00	7,475.21	-291.37	186.26	345.81	0.00	0.00	0.00
7,600.00	0.00	0.00	7,575.21	-291.37	186.26	345.81	0.00	0.00	0.00
7,700.00	0.00	0.00	7,675.21	-291.37	186.26	345.81	0.00	0.00	0.00
7,800.00	0.00	0.00	7,775.21	-291.37	186.26	345.81	0.00	0.00	0.00
7,900.00	0.00	0.00	7,875.21	-291.37	186.26	345.81	0.00	0.00	0.00
8,000.00	0.00	0.00	7,975.21	-291.37	186.26	345.81	0.00	0.00	0.00
8,100.00	0.00	0.00	8,075.21	-291.37	186.26	345.81	0.00	0.00	0.00
8,200.00	0.00	0.00	8,175.21	-291.37	186.26	345.81	0.00	0.00	0.00
8,292.79	0.00	0.00	8,268.00	-291.37	186.26	345.81	0.00	0.00	0.00
MESAVERDE									
8,300.00	0.00	0.00	8,275.21	-291.37	186.26	345.81	0.00	0.00	0.00
8,400.00	0.00	0.00	8,375.21	-291.37	186.26	345.81	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25J2CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25J2CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,500.00	0.00	0.00	8,475.21	-291.37	186.26	345.81	0.00	0.00	0.00
8,600.00	0.00	0.00	8,575.21	-291.37	186.26	345.81	0.00	0.00	0.00
8,700.00	0.00	0.00	8,675.21	-291.37	186.26	345.81	0.00	0.00	0.00
8,800.00	0.00	0.00	8,775.21	-291.37	186.26	345.81	0.00	0.00	0.00
8,900.00	0.00	0.00	8,875.21	-291.37	186.26	345.81	0.00	0.00	0.00
9,000.00	0.00	0.00	8,975.21	-291.37	186.26	345.81	0.00	0.00	0.00
9,100.00	0.00	0.00	9,075.21	-291.37	186.26	345.81	0.00	0.00	0.00
9,200.00	0.00	0.00	9,175.21	-291.37	186.26	345.81	0.00	0.00	0.00
9,300.00	0.00	0.00	9,275.21	-291.37	186.26	345.81	0.00	0.00	0.00
9,400.00	0.00	0.00	9,375.21	-291.37	186.26	345.81	0.00	0.00	0.00
9,500.00	0.00	0.00	9,475.21	-291.37	186.26	345.81	0.00	0.00	0.00
9,600.00	0.00	0.00	9,575.21	-291.37	186.26	345.81	0.00	0.00	0.00
9,617.79	0.00	0.00	9,593.00	-291.37	186.26	345.81	0.00	0.00	0.00

NBU 921-25J2CS PBHL

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NBU 921-25J2CS PBHL - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.97	9,593.00	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,371.00	2,350.00	8 5/8"	8.625	11.000		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,443.03	1,433.00	GREEN RIVER				
4,705.79	4,681.00	WASATCH				
8,292.79	8,268.00	MESAVERDE				

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25J2CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25J2CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
740.78	739.04	-28.51	18.23	Start 1783.26 hold at 740.78 MD	
2,524.04	2,501.24	-258.78	165.43	Start Drop -1.75	
3,027.79	3,003.00	-291.37	186.26	Start 6590.00 hold at 3027.79 MD	
9,617.79	9,593.00	-291.37	186.26	TD at 9617.79	



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-25J2 Pad
NBU 921-25J2CS**

OH

Plan: PLAN #1

Standard Planning Report - Geographic

12 August, 2010



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25J2CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25J2CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-25J2 Pad, SEC 25 T9S R21E				
Site Position:		Northing:	14,532,105.07 usft	Latitude:	40° 0' 24.930 N
From:	Lat/Long	Easting:	2,060,692.75 usft	Longitude:	109° 29' 57.138 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.97 °

Well	NBU 921-25J2CS, 2601' FSL 2596' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,532,100.19 usft	Latitude:	40° 0' 24.883 N
	+E/-W	0.00 ft	Easting:	2,060,684.15 usft	Longitude:	109° 29' 57.250 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	0.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/12/2010	11.18	65.90	52,417

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	147.41

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
740.78	8.82	147.41	739.04	-28.51	18.23	2.00	2.00	0.00	147.41	
2,524.04	8.82	147.41	2,501.24	-258.78	165.43	0.00	0.00	0.00	0.00	
3,027.79	0.00	0.00	3,003.00	-291.37	186.26	1.75	-1.75	0.00	180.00	
9,617.79	0.00	0.00	9,593.00	-291.37	186.26	0.00	0.00	0.00	0.00	NBU 921-25J2CS PB

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25J2CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25J2CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	14,532,100.19	2,060,684.15	40° 0' 24.883 N	109° 29' 57.250 W	
100.00	0.00	0.00	100.00	0.00	0.00	14,532,100.19	2,060,684.15	40° 0' 24.883 N	109° 29' 57.250 W	
200.00	0.00	0.00	200.00	0.00	0.00	14,532,100.19	2,060,684.15	40° 0' 24.883 N	109° 29' 57.250 W	
300.00	0.00	0.00	300.00	0.00	0.00	14,532,100.19	2,060,684.15	40° 0' 24.883 N	109° 29' 57.250 W	
Start Build 2.00										
400.00	2.00	147.41	399.98	-1.47	0.94	14,532,098.73	2,060,685.11	40° 0' 24.869 N	109° 29' 57.238 W	
500.00	4.00	147.41	499.84	-5.88	3.76	14,532,094.37	2,060,688.00	40° 0' 24.825 N	109° 29' 57.201 W	
600.00	6.00	147.41	599.45	-13.22	8.45	14,532,087.11	2,060,692.82	40° 0' 24.752 N	109° 29' 57.141 W	
700.00	8.00	147.41	698.70	-23.49	15.02	14,532,076.95	2,060,699.56	40° 0' 24.651 N	109° 29' 57.057 W	
740.78	8.82	147.41	739.04	-28.51	18.23	14,532,071.98	2,060,702.85	40° 0' 24.601 N	109° 29' 57.015 W	
Start 1783.26 hold at 740.78 MD										
800.00	8.82	147.41	797.56	-36.16	23.12	14,532,064.42	2,060,707.87	40° 0' 24.526 N	109° 29' 56.952 W	
900.00	8.82	147.41	896.38	-49.07	31.37	14,532,051.65	2,060,716.34	40° 0' 24.398 N	109° 29' 56.846 W	
1,000.00	8.82	147.41	995.20	-61.99	39.63	14,532,038.88	2,060,724.81	40° 0' 24.271 N	109° 29' 56.740 W	
1,100.00	8.82	147.41	1,094.02	-74.90	47.88	14,532,026.11	2,060,733.28	40° 0' 24.143 N	109° 29' 56.634 W	
1,200.00	8.82	147.41	1,192.84	-87.81	56.13	14,532,013.33	2,060,741.75	40° 0' 24.015 N	109° 29' 56.528 W	
1,300.00	8.82	147.41	1,291.66	-100.72	64.39	14,532,000.56	2,060,750.22	40° 0' 23.888 N	109° 29' 56.422 W	
1,400.00	8.82	147.41	1,390.48	-113.64	72.64	14,531,987.79	2,060,758.69	40° 0' 23.760 N	109° 29' 56.316 W	
1,443.03	8.82	147.41	1,433.00	-119.19	76.20	14,531,982.29	2,060,762.34	40° 0' 23.705 N	109° 29' 56.270 W	
GREEN RIVER										
1,500.00	8.82	147.41	1,489.29	-126.55	80.90	14,531,975.02	2,060,767.16	40° 0' 23.632 N	109° 29' 56.210 W	
1,600.00	8.82	147.41	1,588.11	-139.46	89.15	14,531,962.25	2,060,775.63	40° 0' 23.505 N	109° 29' 56.104 W	
1,700.00	8.82	147.41	1,686.93	-152.37	97.41	14,531,949.48	2,060,784.10	40° 0' 23.377 N	109° 29' 55.998 W	
1,800.00	8.82	147.41	1,785.75	-165.29	105.66	14,531,936.70	2,060,792.58	40° 0' 23.249 N	109° 29' 55.892 W	
1,900.00	8.82	147.41	1,884.57	-178.20	113.92	14,531,923.93	2,060,801.05	40° 0' 23.122 N	109° 29' 55.785 W	
2,000.00	8.82	147.41	1,983.39	-191.11	122.17	14,531,911.16	2,060,809.52	40° 0' 22.994 N	109° 29' 55.679 W	
2,100.00	8.82	147.41	2,082.21	-204.02	130.43	14,531,898.39	2,060,817.99	40° 0' 22.867 N	109° 29' 55.573 W	
2,200.00	8.82	147.41	2,181.02	-216.94	138.68	14,531,885.62	2,060,826.46	40° 0' 22.739 N	109° 29' 55.467 W	
2,300.00	8.82	147.41	2,279.84	-229.85	146.93	14,531,872.85	2,060,834.93	40° 0' 22.611 N	109° 29' 55.361 W	
2,371.00	8.82	147.41	2,350.00	-239.02	152.79	14,531,863.78	2,060,840.94	40° 0' 22.521 N	109° 29' 55.286 W	
8 5/8"										
2,400.00	8.82	147.41	2,378.66	-242.76	155.19	14,531,860.07	2,060,843.40	40° 0' 22.484 N	109° 29' 55.255 W	
2,500.00	8.82	147.41	2,477.48	-255.67	163.44	14,531,847.30	2,060,851.87	40° 0' 22.356 N	109° 29' 55.149 W	
2,524.04	8.82	147.41	2,501.24	-258.78	165.43	14,531,844.23	2,060,853.91	40° 0' 22.325 N	109° 29' 55.123 W	
Start Drop -1.75										
2,600.00	7.49	147.41	2,576.43	-267.85	171.23	14,531,835.26	2,060,859.86	40° 0' 22.236 N	109° 29' 55.049 W	
2,700.00	5.74	147.41	2,675.76	-277.55	177.43	14,531,825.66	2,060,866.22	40° 0' 22.140 N	109° 29' 54.969 W	
2,800.00	3.99	147.41	2,775.40	-284.69	181.99	14,531,818.60	2,060,870.91	40° 0' 22.069 N	109° 29' 54.910 W	
2,900.00	2.24	147.41	2,875.24	-289.27	184.92	14,531,814.08	2,060,873.91	40° 0' 22.024 N	109° 29' 54.873 W	
3,000.00	0.49	147.41	2,975.21	-291.27	186.20	14,531,812.10	2,060,875.22	40° 0' 22.004 N	109° 29' 54.856 W	
3,027.79	0.00	0.00	3,003.00	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
Start 6590.00 hold at 3027.79 MD										
3,100.00	0.00	0.00	3,075.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
3,200.00	0.00	0.00	3,175.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
3,300.00	0.00	0.00	3,275.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
3,400.00	0.00	0.00	3,375.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
3,500.00	0.00	0.00	3,475.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
3,600.00	0.00	0.00	3,575.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
3,700.00	0.00	0.00	3,675.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
3,800.00	0.00	0.00	3,775.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25J2CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25J2CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,900.00	0.00	0.00	3,875.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
4,000.00	0.00	0.00	3,975.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
4,100.00	0.00	0.00	4,075.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
4,200.00	0.00	0.00	4,175.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
4,300.00	0.00	0.00	4,275.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
4,400.00	0.00	0.00	4,375.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
4,500.00	0.00	0.00	4,475.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
4,600.00	0.00	0.00	4,575.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
4,700.00	0.00	0.00	4,675.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
4,705.79	0.00	0.00	4,681.00	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
WASATCH										
4,800.00	0.00	0.00	4,775.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
4,900.00	0.00	0.00	4,875.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
5,000.00	0.00	0.00	4,975.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
5,100.00	0.00	0.00	5,075.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
5,200.00	0.00	0.00	5,175.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
5,300.00	0.00	0.00	5,275.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
5,400.00	0.00	0.00	5,375.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
5,500.00	0.00	0.00	5,475.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
5,600.00	0.00	0.00	5,575.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
5,700.00	0.00	0.00	5,675.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
5,800.00	0.00	0.00	5,775.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
5,900.00	0.00	0.00	5,875.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
6,000.00	0.00	0.00	5,975.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
6,100.00	0.00	0.00	6,075.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
6,200.00	0.00	0.00	6,175.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
6,300.00	0.00	0.00	6,275.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
6,400.00	0.00	0.00	6,375.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
6,500.00	0.00	0.00	6,475.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
6,600.00	0.00	0.00	6,575.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
6,700.00	0.00	0.00	6,675.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
6,800.00	0.00	0.00	6,775.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
6,900.00	0.00	0.00	6,875.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
7,000.00	0.00	0.00	6,975.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
7,100.00	0.00	0.00	7,075.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
7,200.00	0.00	0.00	7,175.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
7,300.00	0.00	0.00	7,275.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
7,400.00	0.00	0.00	7,375.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
7,500.00	0.00	0.00	7,475.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
7,600.00	0.00	0.00	7,575.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
7,700.00	0.00	0.00	7,675.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
7,800.00	0.00	0.00	7,775.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
7,900.00	0.00	0.00	7,875.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
8,000.00	0.00	0.00	7,975.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
8,100.00	0.00	0.00	8,075.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
8,200.00	0.00	0.00	8,175.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
8,292.79	0.00	0.00	8,268.00	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
MESAVERDE										
8,300.00	0.00	0.00	8,275.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
8,400.00	0.00	0.00	8,375.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25J2CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25J2CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
8,500.00	0.00	0.00	8,475.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
8,600.00	0.00	0.00	8,575.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
8,700.00	0.00	0.00	8,675.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
8,800.00	0.00	0.00	8,775.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
8,900.00	0.00	0.00	8,875.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
9,000.00	0.00	0.00	8,975.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
9,100.00	0.00	0.00	9,075.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
9,200.00	0.00	0.00	9,175.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
9,300.00	0.00	0.00	9,275.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
9,400.00	0.00	0.00	9,375.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
9,500.00	0.00	0.00	9,475.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
9,600.00	0.00	0.00	9,575.21	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
9,617.79	0.00	0.00	9,593.00	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	
NBU 921-25J2CS PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
NBU 921-25J2CS PBHL - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.97	9,593.00	-291.37	186.26	14,531,812.00	2,060,875.29	40° 0' 22.003 N	109° 29' 54.856 W	

Casing Points										
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)						
2,371.00	2,350.00	8 5/8"	8.625	11.000						

Formations										
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)					
1,443.03	1,433.00	GREEN RIVER								
4,705.79	4,681.00	WASATCH								
8,292.79	8,268.00	MESAVERDE								

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25J2CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25J2CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
740.78	739.04	-28.51	18.23	Start 1783.26 hold at 740.78 MD	
2,524.04	2,501.24	-258.78	165.43	Start Drop -1.75	
3,027.79	3,003.00	-291.37	186.26	Start 6590.00 hold at 3027.79 MD	
9,617.79	9,593.00	-291.37	186.26	TD at 9617.79	

NBU 921-25G3AS

Surface: 2,611' FSL 2,578' FEL (NW/4SE/4)
BHL: 2,265' FNL 2,136' FEL (SW/4NE/4)
Mineral Lease: UO 1189 ST

NBU 921-25G3CS

Surface: 2,606' FSL 2,587' FEL (NW/4SE/4)
BHL: 2,530' FNL 2,518' FEL (SW/4NE/4)
Mineral Lease: UO 1189 ST

NBU 921-25J2CS

Surface: 2,601' FSL 2,596' FEL (NW/4SE/4)
BHL: 2,310' FSL 2,410' FEL (NW/4SE/4)
Mineral Lease: UO 1194 ST

NBU 921-25K1CS

Surface: 2,596' FSL 2,605' FEL (NW/4SE/4)
BHL: 2,186' FSL 2,231' FWL (NE/4SW/4)
Mineral Lease: UO 1194 ST

Pad: NBU 921-25J2
Section 25 T9S R21E

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

Approximately $\pm 350'$ (0.1 miles) of road re-route to this pad location is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the CIGE 172, which is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of August 16, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,190'$ and the individual segments are broken up as follows:

$\pm 770'$ (0.1 miles) –New 6" buried gas pipeline from the meter to the edge of the pad.

±420' (0.1 miles) –New 6” buried gas pipeline from the edge of pad to the existing 12” gas pipeline tie in point.

The total liquid gathering pipeline distance from the meter to the tie in point is ±2,100' and the individual segments are broken up as follows:

±770' (0.1 miles) –New 4” buried liquid pipeline from the meter to the edge of the pad.

±1,330' (0.3 miles) –New 4” buried liquid pipeline from the edge of pad to the main road intersection.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition,

no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where

possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

K. Other Information:

A Class I literature survey was conducted by Montgomery Archaeological Consultants, Inc. (MOAC). For additional details please refer to report MOAC 10-125

A paleontological reconnaissance has been conducted by Intermountain Paleo-Consulting (IPC) and a report will be submitted under separate cover.

A biological field survey was completed by Grasslands Consulting, Inc. on July 13, 2010. For additional details please refer to report GCI-292.

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Danielle Piernot

August 16, 2010
Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 36 PROPOSED WELL LOCATIONS
IN T9S, R21E, SECTION 25
(MOAC Report No. 10-125)
UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

State of Utah
School and Institutional Trust Lands Administration

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 10-125

July 26, 2010

State of Utah Public Lands Policy Coordination Office
Permit No. 117

United States Department of Interior (FLPMA)
Permit No. 10-UT-60122



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237
(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report Number: GCI #292

Report Date: August 03, 2010

Operator: Kerr-McGee Oil & Gas Onshore LP

Well: NBU 921-25J2 well pad (Bores: NBU 921-25G3AS, NBU 921-25G3CS, NBU 921-25J2CS, & NBU 921-25K1CS)

Pipeline: Associated pipeline leading to proposed well pad

Access Road: Associated road leading to proposed well pad

Location: Section 25, Township 9 South, Range 21 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*)

Survey Date: July 13, 2010

Observers: Grasslands Consulting, Inc. Biologists: Brad Snopek, Jennie Sinclair, Jonathan Sexauer, Adrienne Cunningham, Garrett Peterson and field technicians.



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

July 15, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-25J2CS
T9S-R21E
Section 25: NWSE surface and bottom hole
Surface: 2601' FSL, 2596' FEL
Bottom Hole: 2310' FSL, 2410' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-25J2CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

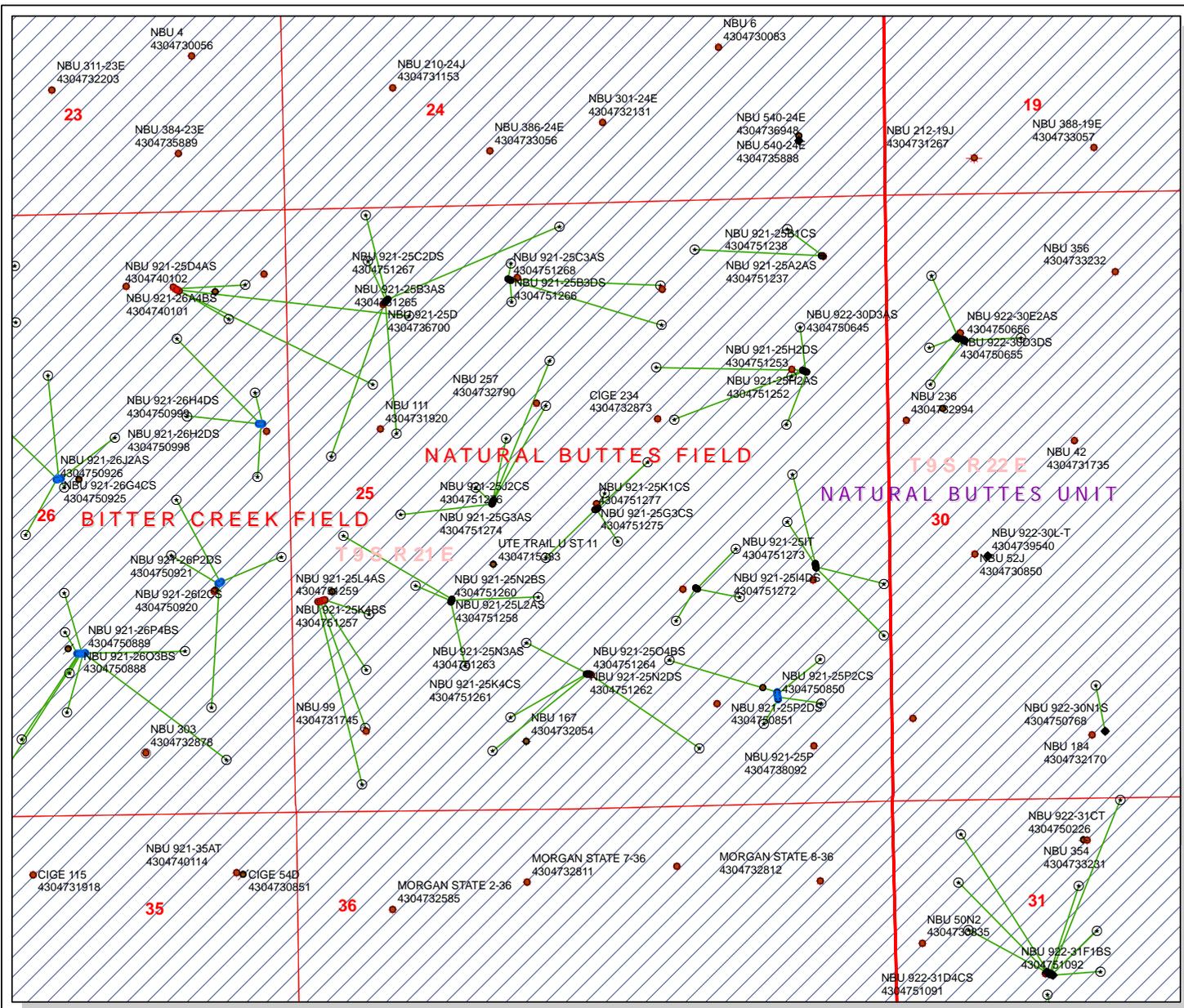
Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

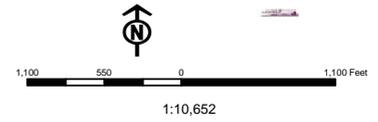
Joe Matney
Sr. Staff Landman

API Number: 4304751276
Well Name: NBU 921-25JCS
Township 09.0 S Range 21.0 E Section 25
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason



Units	Status
ACTIVE	<all other values>
EXPLORATORY	APD - Approved Permit
GAS STORAGE	DRL - Spudded (Drilling Commenced)
NF PP OIL	GIW - Gas Injection
NF SECONDARY	GS - Gas Storage
PI OIL	LA - Location Abandoned
PP GAS	LOC - New Location
PP GEOTHERMAL	OPS - Operation Suspended
PP OIL	PA - Plugged Abandoned
SECONDARY	PGW - Producing Gas Well
TERMINATED	PDW - Producing Oil Well
Fields	RET - Returned APD
Sections	SGW - Shut-in Gas Well
Township	SHW - Shut-in Oil Well
Bottom Hole Location - AGRC	TA - Temp. Abandoned
	TW - Test Well
	WDW - Water Disposal
	WW - Water Injection Well
	WSW - Water Supply Well



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

August 17, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-25A Pad

43-047-51237	NBU 921-25A2AS	Sec 25 T09S R21E 0489 FNL 0565 FEL
	BHL	Sec 25 T09S R21E 0252 FNL 0865 FEL

43-047-51238	NBU 921-25B1CS	Sec 25 T09S R21E 0489 FNL 0575 FEL
	BHL	Sec 25 T09S R21E 0416 FNL 1676 FEL

NBU 921-25D Pad

43-047-51239	NBU 921-25C1AS	Sec 25 T09S R21E 0800 FNL 0893 FWL
	BHL	Sec 25 T09S R21E 0190 FNL 2405 FWL

43-047-51240	NBU 921-25D1BS	Sec 25 T09S R21E 0807 FNL 0885 FWL
	BHL	Sec 25 T09S R21E 0060 FNL 0716 FWL

43-047-51241	NBU 921-25E1CS	Sec 25 T09S R21E 0821 FNL 0871 FWL
	BHL	Sec 25 T09S R21E 1976 FNL 0947 FWL

43-047-51242	NBU 921-25E3AS	Sec 25 T09S R21E 0828 FNL 0864 FWL
	BHL	Sec 25 T09S R21E 2162 FNL 0371 FWL

43-047-51251	NBU 921-25D1CS	Sec 25 T09S R21E 0814 FNL 0878 FWL
	BHL	Sec 25 T09S R21E 0460 FNL 0726 FWL

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-25F Pad

43-047-51243	NBU 921-25F1BS	Sec 25 T09S R21E 2580 FNL 1780 FWL
	BHL	Sec 25 T09S R21E 1366 FNL 2296 FWL
43-047-51244	NBU 921-25F1CS	Sec 25 T09S R21E 2571 FNL 1784 FWL
	BHL	Sec 25 T09S R21E 1754 FNL 2259 FWL
43-047-51245	NBU 921-25F3AS	Sec 25 T09S R21E 2589 FNL 1776 FWL
	BHL	Sec 25 T09S R21E 2034 FNL 1905 FWL
43-047-51246	NBU 921-25F3CS	Sec 25 T09S R21E 2598 FNL 1772 FWL
	BHL	Sec 25 T09S R21E 2461 FNL 1628 FWL
43-047-51247	NBU 921-25L1BS	Sec 25 T09S R21E 2607 FNL 1768 FWL
	BHL	Sec 25 T09S R21E 2597 FSL 0969 FWL

NBU 921-25H Pad

43-047-51248	NBU 921-25A3DS	Sec 25 T09S R21E 1498 FNL 0736 FEL
	BHL	Sec 25 T09S R21E 1110 FNL 0776 FEL
43-047-51249	NBU 921-25G1CS	Sec 25 T09S R21E 1489 FNL 0754 FEL
	BHL	Sec 25 T09S R21E 1895 FNL 1893 FEL
43-047-51250	NBU 921-25G2AS	Sec 25 T09S R21E 1484 FNL 0763 FEL
	BHL	Sec 25 T09S R21E 1439 FNL 2042 FEL
43-047-51252	NBU 921-25H2AS	Sec 25 T09S R21E 1493 FNL 0745 FEL
	BHL	Sec 25 T09S R21E 1538 FNL 0857 FEL
43-047-51253	NBU 921-25H2DS	Sec 25 T09S R21E 1502 FNL 0727 FEL
	BHL	Sec 25 T09S R21E 1958 FNL 0913 FEL

NBU 921-25J Pad

43-047-51254	NBU 921-25J4AS	Sec 25 T09S R21E 1878 FSL 1725 FEL
	BHL	Sec 25 T09S R21E 1795 FSL 1360 FEL
43-047-51255	NBU 921-25J4CS	Sec 25 T09S R21E 1886 FSL 1743 FEL
	BHL	Sec 25 T09S R21E 1604 FSL 1920 FEL
43-047-51256	NBU 921-25J1DS	Sec 25 T09S R21E 1882 FSL 1734 FEL
	BHL	Sec 25 T09S R21E 2218 FSL 1381 FEL

NBU 921-25K Pad

43-047-51257	NBU 921-25K4BS	Sec 25 T09S R21E 1838 FSL 1400 FWL
	BHL	Sec 25 T09S R21E 1848 FSL 2161 FWL
43-047-51258	NBU 921-25L2AS	Sec 25 T09S R21E 1848 FSL 1402 FWL
	BHL	Sec 25 T09S R21E 2423 FSL 0465 FWL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51259	NBU 921-25L4AS	Sec 25 T09S R21E 1829 FSL 1397 FWL
	BHL	Sec 25 T09S R21E 1975 FSL 1088 FWL
43-047-51260	NBU 921-25N2BS	Sec 25 T09S R21E 1819 FSL 1394 FWL
	BHL	Sec 25 T09S R21E 1260 FSL 1508 FWL
NBU 921-25N Pad		
43-047-51261	NBU 921-25K4CS	Sec 25 T09S R21E 1157 FSL 2585 FWL
	BHL	Sec 25 T09S R21E 1450 FSL 2045 FWL
43-047-51262	NBU 921-25N2DS	Sec 25 T09S R21E 1159 FSL 2565 FWL
	BHL	Sec 25 T09S R21E 0800 FSL 1896 FWL
43-047-51263	NBU 921-25N3AS	Sec 25 T09S R21E 1158 FSL 2575 FWL
	BHL	Sec 25 T09S R21E 0508 FSL 1729 FWL
43-047-51264	NBU 921-25O4BS	Sec 25 T09S R21E 1156 FSL 2595 FWL
	BHL	Sec 25 T09S R21E 0485 FSL 1741 FEL
NBU 921-25C Pad		
43-047-51265	NBU 921-25B3AS	Sec 25 T09S R21E 0645 FNL 1955 FWL
	BHL	Sec 25 T09S R21E 0720 FNL 1985 FEL
43-047-51266	NBU 921-25B3DS	Sec 25 T09S R21E 0654 FNL 1972 FWL
	BHL	Sec 25 T09S R21E 1070 FNL 1985 FEL
43-047-51267	NBU 921-25C2DS	Sec 25 T09S R21E 0640 FNL 1946 FWL
	BHL	Sec 25 T09S R21E 0504 FNL 1975 FWL
43-047-51268	NBU 921-25C3AS	Sec 25 T09S R21E 0650 FNL 1964 FWL
	BHL	Sec 25 T09S R21E 0841 FNL 1975 FWL
NBU 921-25I Pad		
43-047-51269	NBU 921-25H3DS	Sec 25 T09S R21E 2074 FSL 0690 FEL
	BHL	Sec 25 T09S R21E 2395 FNL 0870 FEL
43-047-51270	NBU 921-25I2AS	Sec 25 T09S R21E 2054 FSL 0687 FEL
	BHL	Sec 25 T09S R21E 2445 FSL 0924 FEL
43-047-51271	NBU 921-25I4AS	Sec 25 T09S R21E 2045 FSL 0686 FEL
	BHL	Sec 25 T09S R21E 1882 FSL 0091 FEL
43-047-51272	NBU 921-25I4DS	Sec 25 T09S R21E 2035 FSL 0684 FEL
	BHL	Sec 25 T09S R21E 1420 FSL 0105 FEL
43-047-51273	NBU 921-25IT	Sec 25 T09S R21E 2064 FSL 0689 FEL
	BHL	Sec 25 T09S R21E 2064 FSL 0689 FEL

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-25J2 Pad

43-047-51274	NBU 921-25G3AS	Sec 25	T09S	R21E	2611	FSL	2578	FEL
	BHL	Sec 25	T09S	R21E	2265	FNL	2136	FEL
43-047-51275	NBU 921-25G3CS	Sec 25	T09S	R21E	2606	FSL	2587	FEL
	BHL	Sec 25	T09S	R21E	2530	FNL	2518	FEL
43-047-51276	NBU 921-25J2CS	Sec 25	T09S	R21E	2601	FSL	2596	FEL
	BHL	Sec 25	T09S	R21E	2310	FSL	2410	FEL
43-047-51277	NBU 921-25K1CS	Sec 25	T09S	R21E	2596	FSL	2605	FEL
	BHL	Sec 25	T09S	R21E	2186	FSL	2231	FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals,
email=Michael.Coulthard@blm.gov, c=US
Date: 2010.08.17 14:58:46 -0600

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:8-17-10

From: Jim Davis
To: Bonner, Ed; Garrison, LaVonne; Hill, Brad; Mason, Diana
CC: Bartlett, Floyd; Laura.Gianakos@anadarko.com; Piernot, Danielle; Upch...
Date: 9/2/2010 9:13 AM
Subject: SITLA approval of Kerr McGee wells
Attachments: KMG approvals and paleo 9.1.2010.xlsx

The following wells have been approved by SITLA including arch clearance. Paleo clearance is also granted with stipulations as noted.

Full Paleo monitoring: All ground-disturbing activities must be monitored by a permitted paleontologist.

NBU 922-29F4DS [API #4304751207]	Full Monitoring	IPC 10-08
NBU 922-29G4CS [API #4304751208]	Full Monitoring	IPC 10-08
NBU 922-29J4BS [API #4304751209]	Full Monitoring	IPC 10-08
NBU 922-29K1DS [API #4304751210]	Full Monitoring	IPC 10-08
NBU 922-29G1AS [API #4304751194]	Full Monitoring	IPC 10-06
NBU 922-29G1DS [API #4304751195]	Full Monitoring	IPC 10-06
NBU 922-29G2BS [API #4304751196]	Full Monitoring	IPC 10-06
NBU 922-29G3BS [API #4304751197]	Full Monitoring	IPC 10-06
NBU 921-25A3DS [API 4304751248]	Full Monitoring	IPC 10-21
NBU 921-25G1CS [API 4304751249]	Full Monitoring	IPC 10-21
NBU 921-25G2AS [API 4304751250]	Full Monitoring	IPC 10-21
NBU 921-25H2AS [API 4304751252]	Full Monitoring	IPC 10-21
NBU 921-25H2DS [API 4304751253]	Full Monitoring	IPC 10-21
NBU 921-25G3AS [API 4304751274]	Full Monitoring	IPC 10-23
NBU 921-25G3CS [API 4304751275]	Full Monitoring	IPC 10-23
NBU 921-25J2CS [API 4304751276]	Full Monitoring	IPC 10-23
NBU 921-25K1CS [API 4304751277]	Full Monitoring	IPC 10-23
NBU 921-25A2AS [API 4304751237]	Full Monitoring	IPC 10-21
NBU 921-25B1CS [API 4304751238]	Full Monitoring	IPC 10-21

Spot Paleo Monitoring: All ground-disturbing activities must be monitored by a permitted paleontologist at the beginning of construction and thereafter spot-monitored as paleontological conditions merit.

NBU 921-25C1AS [API 4304751239]	Spot Monitoring	IPC 10-20
NBU 921-25D1BS [API 4304751240]	Spot Monitoring	IPC 10-20
NBU 921-25D1CS [API 4304751251]	Spot Monitoring	IPC 10-20
NBU 921-25E1CS [API 4304751241]	Spot Monitoring	IPC 10-20
NBU 921-25E3AS [API 4304751242]	Spot Monitoring	IPC 10-20
NBU 921-25F1BS [API 4304751243]	Spot Monitoring	IPC 10-21
NBU 921-25F1CS [API 4304751244]	Spot Monitoring	IPC 10-21
NBU 921-25F3AS [API 4304751245]	Spot Monitoring	IPC 10-21
NBU 921-25F3CS [API 4304751246]	Spot Monitoring	IPC 10-21
NBU 921-25L1BS [API 4304751247]	Spot Monitoring	IPC 10-21
NBU 921-25J1DS [API 4304751256]	Spot Monitoring	IPC 10-23
NBU 921-25J4AS [API 4304751254]	Spot Monitoring	IPC 10-23
NBU 921-25J4CS [API 4304751255]	Spot Monitoring	IPC 10-23
NBU 921-25K4BS [API 4304751257]	Spot Monitoring	IPC 10-22
NBU 921-25L2AS [API 4304751258]	Spot Monitoring	IPC 10-22
NBU 921-25L4AS [API 4304751259]	Spot Monitoring	IPC 10-22
NBU 921-25N2BS [API 4304751260]	Spot Monitoring	IPC 10-22
NBU 921-25K4CS [API 4304751261]	Spot Monitoring	IPC 10-23
NBU 921-25N2DS [API 4304751262]	Spot Monitoring	IPC 10-23
NBU 921-25N3AS [API 4304751263]	Spot Monitoring	IPC 10-23

NBU 921-25O4BS [API 4304751264]	Spot Monitoring	IPC 10-23	
NBU 921-25B3AS [API 4304751265]	Spot Monitoring	IPC 10-20	
NBU 921-25B3DS [API 4304751266]	Spot Monitoring	IPC 10-20	
NBU 921-25C2DS [API 4304751267]	Spot Monitoring	IPC 10-20	
NBU 921-25C3AS [API 4304751268]	Spot Monitoring	IPC 10-20	
NBU 921-25IT [API 4304751273]	Spot Monitoring	IPC 10-23	
NBU 921-25H3DS [API 4304751269]	Spot Monitoring	IPC 10-23	
NBU 921-25I2AS [API 4304751270]	Spot Monitoring	IPC 10-23	
NBU 921-25I4AS [API 4304751271]	Spot Monitoring	IPC 10-23	
NBU 921-25I4DS [API 4304751272]	Spot Monitoring	IPC 10-23	
NBU 922-29A1BS [API #4304751183]	Spot Monitoring	IPC 10-06	
NBU 922-29A1CS [API #4304751184]	Spot Monitoring	IPC 10-06	
NBU 922-29A4CS [API #4304751185]	Spot Monitoring	IPC 10-06	
NBU 922-29H1BS [API #4304751186]	Spot Monitoring	IPC 10-06	
NBU 922-29B2CS [API #4304751187]	Spot Monitoring	IPC 10-06	
NBU 922-29B4AS [API #4304751188]	Spot Monitoring	IPC 10-06	(SITLA surf/ Fed Min)
NBU 922-29C2AS [API #4304751189]	Spot Monitoring	IPC 10-06	(SITLA surf/ Fed Min)
NBU 922-29C4AS [API #4304751190]	Spot Monitoring	IPC 10-06	
NBU 922-29B1AS [API #4304751191]	Spot Monitoring	IPC 10-06	
NBU 922-29B1DS [API #4304751192]	Spot Monitoring	IPC 10-06	
NBU 922-29B2BS [API #4304751193]	Spot Monitoring	IPC 10-06	
NBU 922-29D4DS [API #4304751198]	Spot Monitoring	IPC 10-05	
NBU 922-29E3BS [API #4304751199]	Spot Monitoring	IPC 10-05	
NBU 922-29F3AS [API #4304751200]	Spot Monitoring	IPC 10-05	
NBU 922-29F3BS [API #4304751201]	Spot Monitoring	IPC 10-05	
NBU 922-29G4AS [API #4304751202]	Spot Monitoring	IPC 10-06	
NBU 922-29H1CS [API #4304751203]	Spot Monitoring	IPC 10-06	
NBU 922-29H4CS [API #4304751204]	Spot Monitoring	IPC 10-06	
NBU 922-29I1BS [API #4304751205]	Spot Monitoring	IPC 10-06	
NBU 922-29I1CS [API #4304751206]	Spot Monitoring	IPC 10-06	
NBU 922-29K2CS [API #4304751211]	Spot Monitoring	IPC 10-07	
NBU 922-29K4AS [API #4304751212]	Spot Monitoring	IPC 10-07	
NBU 922-29L1AS [API #4304751213]	Spot Monitoring	IPC 10-07	
NBU 922-29L2BS [API #4304751214]	Spot Monitoring	IPC 10-07	
NBU 922-29L2CS [API #4304751215]	Spot Monitoring	IPC 10-07	
NBU 922-29L3CS [API #4304751216]	Spot Monitoring	IPC 10-07	
NBU 922-29M2AS [API #4304751217]	Spot Monitoring	IPC 10-07	
NBU 922-29N2BS [API #4304751218]	Spot Monitoring	IPC 10-07	
NBU 922-29N3BS [API #4304751219]	Spot Monitoring	IPC 10-07	
NBU 922-30I4BS [API #4304751220]	Spot Monitoring	IPC 10-07	(SITLA surf/ Fed Min)
NBU 922-30I4CS [API #4304751221]	Spot Monitoring	IPC 10-07	(SITLA surf/Fed Min)
NBU 922-29J4CS [API #4304751222]	Spot Monitoring	IPC 10-08	
NBU 922-29N1BS [API #4304751223]	Spot Monitoring	IPC 10-08	
NBU 922-29O1CS [API #4304751224]	Spot Monitoring	IPC 10-08	

That's quite a list, so I'm attaching a quick-and-dirty spreadsheet of the same data. This may be helpful to some of you.

Thanks.
-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-25J2CS 4304751276			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2350	9593		
Previous Shoe Setting Depth (TVD)	40	2350		
Max Mud Weight (ppg)	8.3	12.4		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	6044	12.1		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1014	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	732	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	497	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	506	NO <input type="text" value="Reasonable depth in area"/>
Required Casing/BOPE Test Pressure=		2350	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

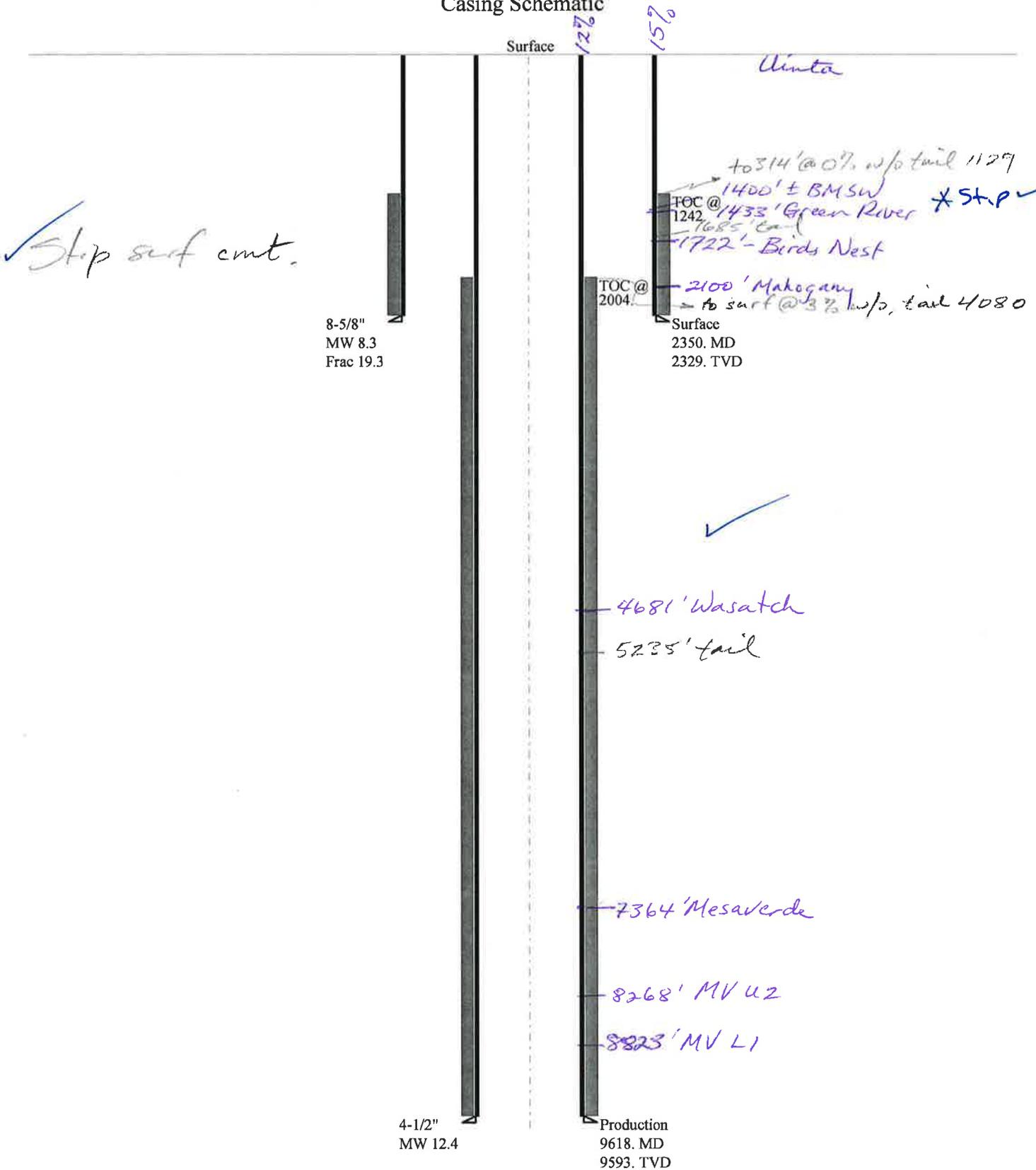
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	6186	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5035	NO <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4076	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4593	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2350	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="text"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="text"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="text"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="text"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43047512760000 NBU 921-25J2CS

Casing Schematic



Well name:	43047512760000 NBU 921-25J2CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51276
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

Mud weight: 8.330 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 107 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 1,242 ft

Burst

Max anticipated surface pressure: 2,068 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 2,348 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on air weight.
 Neutral point: 2,061 ft

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 280 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 8.82 °

Re subsequent strings:

Next setting depth: 9,593 ft
 Next mud weight: 12.400 ppg
 Next setting BHP: 6,180 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,350 ft
 Injection pressure: 2,350 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2350	8.625	28.00	I-55	LT&C	2329	2350	7.892	93060
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1008	1880	1.865	2348	3390	1.44	65.2	348	5.34 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: September 29, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2329 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43047512760000 NBU 921-25J2CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-51276
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 12.400 ppg
 Internal fluid density: 2.330 ppg

Burst

Max anticipated surface pressure: 4,069 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP: 6,180 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.60 (B)

Tension is based on air weight.
 Neutral point: 7,840 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 208 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 2,004 ft

Directional Info - Build & Drop

Kick-off point: 300 ft
 Departure at shoe: 346 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9618	4.5	11.60	I-80	LT&C	9593	9618	3.875	126958
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5018	6360	1.267	6180	7780	1.26	111.3	212	1.91 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: September 29, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9593 ft, a mud weight of 12.4 ppg. An internal gradient of .121 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 921-25J2CS
API Number 43047512760000 **APD No** 2962 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NWSE **Sec** 25 **Tw** 9.0S **Rng** 21.0E 2601 **FSL** 2596 **FEL**
GPS Coord (UTM) 628181 4429397 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Roger Perry, Laura Gianokas, Lovel Young, Grizz Oleen, (Kerr McGee), Mitch.Batty, John Slaugh, (Timberline Engineering and Land Surveying), Ed Bonner (SITLA), Ben Williams (UDWR).

Regional/Local Setting & Topography

The general area is the Natural Buttes Unit in a major un-named drainage west of the lower portion of the Sand Wash drainage of Uintah, County, approximately 34 air miles and 42.4 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the area is characterized by open flats bordered or dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The NBU 921-25J2 pad will be created by enlarging the existing pad of the CIGE 172 gas well. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-25G3AS, 921-25G3CS, 921-25J2CS and 921-25K1CS. The direction of the existing pad will be re-oriented and enlarged in all directions. The site is surrounded by moderately low hills, some with ledgy rock outcrops. On the east side of the reserve pit some overland flow and a small channel have developed. Rather than construct a diversion ditch and re-route it to the north or angle the end of the pit, excess spoils will be stockpiled along this side to pond any flows. A shallow drainage to the west will be missed. Any flows in this area will follow the fill of the pad. The White River is approximately 3 miles down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the best site in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
 Wildlife Habitat
 Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 352 Length 455	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a poor desert shrub type, which includes shadscale, curly mesquite, broom snakeweed and halogeton..

Antelope, sheep during the winter, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Surface soils are a moderately shallow rocky loam.

Erosion Issues N

Sedimentation Issues Y

On the east side of the reserve pit some overland flow and a small channel have developed.

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? Y

Rather than construct a diversion ditch and re-route it to the north or angle the end of the pit, excess spoils will be stockpiled along this side to pond any flows.

Paleo Survey Run? **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors	Site Ranking	
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	40 1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 104' x 260' x 12' deep located in a cut on the southeast side of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett

8/26/2010

Evaluator

Date / Time

Application for Permit to Drill Statement of Basis

10/5/2010

Utah Division of Oil, Gas and Mining

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APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2962	43047512760000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-25J2CS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NWSE 25 9S 21E S 2601 FSL 2596 FEL GPS Coord (UTM)			628103E	4429396N

Geologic Statement of Basis

Kerr McGee proposes to set 2,350' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 1,400'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 25. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect any usable ground water.

Brad Hill
APD Evaluator

9/28/2010
Date / Time

Surface Statement of Basis

The general area is the Natural Buttes Unit in a major un-named drainage west of the lower portion of the Sand Wash drainage of Uintah, County, approximately 34 air miles and 42.4 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the area is characterized by open flats bordered or dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The NBU 921-25J2 pad will be created by enlarging the existing pad of the CIGE 172 gas well. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-25G3AS, 921-25G3CS, 921-25J2CS and 921-25K1CS. The direction of the existing pad will be re-oriented and enlarged in all directions. The site is surrounded by moderately low hills, some with ledgy rock outcrops. On the east side of the reserve pit some overland flow and a small channel have developed. Rather than construct a diversion ditch and re-route it to the north or angle the end of the pit, excess spoils will be stockpiled along this side to pond any flows. A shallow drainage to the west will be missed. Any flows in this area will follow the fill of the pad. The White River is approximately 3 miles down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the best site in the immediate area.

Both the surface and minerals are owned by SITLA. Ed Bonner represented SITLA at the pre-site investigation. Mr. Bonner had no concerns pertaining to this location. SITLA will provide site reclamation standards and a seed mix.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

Floyd Bartlett
Onsite Evaluator

8/26/2010
Date / Time

Application for Permit to Drill Statement of Basis

10/5/2010

Utah Division of Oil, Gas and Mining

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Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/17/2010

API NO. ASSIGNED: 43047512760000

WELL NAME: NBU 921-25J2CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWSE 25 090S 210E

Permit Tech Review:

SURFACE: 2601 FSL 2596 FEL

Engineering Review:

BOTTOM: 2310 FSL 2410 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.00694

LONGITUDE: -109.49918

UTM SURF EASTINGS: 628103.00

NORTHINGS: 4429396.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UO 1194 ST

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - 22013542
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: Permit #43-8496
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

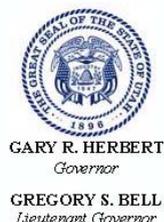
Commingle Approved

LOCATION AND SITING:

- R649-2-3.
Unit: NATURAL BUTTES
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
Board Cause No: Cause 173-14
Effective Date: 12/2/1999
Siting: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations:
3 - Commingle - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmacdonald



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-25J2CS
API Well Number: 43047512760000
Lease Number: UO 1194 ST
Surface Owner: STATE
Approval Date: 10/5/2010

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 ST
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-25J2CS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512760000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
---	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 2601 FSL 2596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 12/7/2010	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX
 SPUD WELL LOCATION ON DECEMBER 7, 2010 AT 12:30 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 12/8/2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/8/2010	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
 Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751274	NBU 921-25G3AS		NWSE	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	12/7/2010		12/14/10		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 12/7/2010 AT 9:30 HRS. <u>BHL=SWNE</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751275	NBU 921- 25G3AS <u>25G3CS</u>		NWSE	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	12/7/2010		12/14/10		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 12/7/2010 AT 11:00 HRS. <u>BHL=SWNE</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751276	NBU 921-25J2CS		NWSE	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	12/7/2010		12/14/10		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 12/7/2010 AT 12:30 HRS. <u>BHL=NWSE</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

ANDY LYTLE

Name (Please Print)


Signature

REGULATORY ANALYST

Title

12/8/2010

Date

RECEIVED

DEC 08 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 ST
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-25J2CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512760000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2601 FSL 2596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/10/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU CAPSTAR AIR RIG ON JANUARY 8, 2011. DRILLED 11" SURFACE HOLE TO 2628'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 50 BBLS FRESH WATER. PUMP 20 BBLS GEL WATER. LEAD CEMENT W/ 200 SX CLASS G PREM LITE @ 11.0 PPG, 3.52 YD. TAILED CEMENT W/ 225 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 144.5 BBLS WATER. 490 PSI OF LIFT @ 2 BBL/MIN. LOST CIRC AFTER 130 BBLS OF DISPLACEMENT. BUMP PLUG W/ 900 PSI. FLOAT HELD. RUN 1" PIPE & PUMP 35 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. CEMENT TO SURFACE, BUT FALLING. WILL TOP OUT ON NEXT JOB. WORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 1/11/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 ST
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-25J2CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512760000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2601 FSL 2596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/28/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2628' TO 9635' ON FEBRUARY 26, 2011. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. PUMP 30 BBLs SPACER, LEAD CEMENT W/ 520 SX CLASS G PREM LITE @ 12.4 PPG, 2.03 YD. TAILED CEMENT W/ 1050 SX CLASS G 50/50 POZ MIX @ 14.30 PPG, 1.26 YD. DISPLACED W/ 149 BBLs CLAYFIX WATER. FINAL LIFT 2680 PSI, BUMPED PLUG 500 OVER, FLOATS HELD. 1.5 BBL TO TRUCK, NO RETURNS DURING DISPLACEMENT. RD CEMENTERS AND CLEANED PITS. RELEASED ENSIGN RIG #139 ON FEBRUARY 28, 2011 @ 18:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 3/2/2011

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 139
Submitted By KENNY MORRIS Phone Number
435- 828-0984
Well Name/Number NBU-921-25J2CS
Qtr/Qtr NWSE Section 25 Township 9S Range 21E
Lease Serial Number UO1194 ST
API Number 43047512760000

Casing – Time casing run starts, not cementing times.

- Production Casing
 Other

Date/Time 2/27/2011 18:00 AM PM

BOPE

- Initial BOPE test at surface casing point
 Other

Date/Time _____ AM PM

Rig Move

Location To: SKID TO NBU 921-25K1CS TO FOLLOW EARLY NEXT WEEK ,BOP NOTICE TO FOLLOW

Date/Time 2/28/2011 AM PM

RECEIVED
FEB 28 2011
DIV. OF OIL, GAS & MINING

Remarks _____

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 139
Submitted By KENNY MORRIS Phone Number
435- 828-0984
Well Name/Number NBU-921-25J2CS
Qtr/Qtr NWSE Section 25 Township 9S Range 21E
Lease Serial Number UO1194 ST
API Number 43047512760000

Casing – Time casing run starts, not cementing times.

- Production Casing
- Other

Date/Time _ _ AM PM

RECEIVED
FEB 22 2011
DIV. OF OIL, GAS & MINING

BOPE

- Initial BOPE test at surface casing point
- Other

Date/Time 2/20/2011 12:00 AM PM

Rig Move

Location To: WILL SKID TO NBU-921-25J2CS THE THIRD WELL ON PAD SUNDAY MORNING

Date/Time 2/20/2011 01:00 AM PM

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-25J2CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2601 FSL 2596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047512760000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:		
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/2/2011		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 05/02/2011 AT 12:30 P.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED ALONG WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/3/2011	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
UO 1194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

7. UNIT or CA AGREEMENT NAME
UTU63047A

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

8. WELL NAME and NUMBER:
NBU 921-25J2CS

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
4304751276

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY **DENVER** STATE **CO** ZIP **80217** PHONE NUMBER: **(720) 929-6100**

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **NWSE 2601 FSL 2596 FEL S25, T9S, R21E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NWSE 2325 FSL 2415 FEL S25, T9S, R21E**
AT TOTAL DEPTH: **NWSE 2296 FSL 2398 FEL S25, T9S, R21E**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NWSE 25 9S 21E S

12. COUNTY **UINTAH** 13. STATE **UTAH**

14. DATE SPUDDED: **12/7/2010** 15. DATE T.D. REACHED: **2/26/2011** 16. DATE COMPLETED: **5/2/2011** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
4930 GL

18. TOTAL DEPTH: MD **9,635** TVD **9,611** 19. PLUG BACK T.D.: MD **9,582** TVD **9,558**

20. IF MULTIPLE COMPLETIONS, HOW MANY? * 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
ACBL-CHI TRIPLE COMBO

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,587		460		0	
7 7/8"	4 1/2" I-80	11.6#		9,625		1,570		5608	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,794							

26. PRODUCING INTERVALS

27. PERFORATION RECORD

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) MESAVERDE	7,417	9,425			7,417 9,425	0.36	166	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) WSMVD								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7417 - 9425	PUMP 7,284 BBLs SLICK H2O & 277,974 LBS SAND

29. ENCLOSED ATTACHMENTS:

30. WELL STATUS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

PROD

RECEIVED

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/2/2011		TEST DATE: 5/5/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,400	WATER – BBL: 524	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,850	CSG. PRESS. 2,600	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,400	WATER – BBL: 524	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,394				
BIRD'S NEST	1,710				
MAHOGANY	2,119				
WASATCH	4,702	7,404			
MESAVERDE	7,404	9,635	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history and final survey. Completion chrono details individual frac stages.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLE TITLE REGULATORY ANALYST
 SIGNATURE  DATE 6/2/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
Event: DRILLING	Start Date: 12/7/2010	End Date: 2/28/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)	UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/8/2011	0:00 - 7:00	7.00	DRLSUR	21	C	P		WAIT ON DAYLIGHT TO SKID RIG INSTALL BIGGER MOTORS ON TOP DRIVE
	7:00 - 12:30	5.50	DRLSUR	01	B	P		CONDUCT SAFETY MEETING AND SKID RIG TO WELL # 3/4 NBU 921-25J2CS
	12:30 - 15:00	2.50	DRLSUR	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOW LINE FINISH RIG UP
	15:00 - 16:00	1.00	DRLSUR	06	A	P		PICK UP BIT AND MUD MOTOR PREPARE TO SPUD
	16:00 - 17:30	1.50	DRLSUR	02	C	P		SPUD WELL DRILL F/ 40' - 217' WOB 4-8 ROT 45-55 DHR 96 AVE ROP 118 FT HR
	17:30 - 19:30	2.00	DRLSUR	06	A	P		TOOH PICK UP DIRECTIONAL BHA INSTALL MWD TOOLS AND ORIENT TO MUD MOTOR TIH
	19:30 - 0:00	4.50	DRLSUR	02	C	P		DRILL F/ 217' - 761' AVE ROP 120 FT HR WOB 15-22 ROT 50-60 DHR 96 GPM 600 OBP 1180 OFBP 960 LAST SURVEY 7.56 DEG 145.67
1/9/2011	0:00 - 9:00	9.00	DRLSUR	02	C	P		DRILL F/ 761' - 1946' AVE ROP 131 FT HR WOB 20-22 ROT 55-60 DHR 96 OBP 1340 OFBP 1125 NO LOSSES LAST SURVEY 7.63 DEG 150.67 AZI
	9:00 - 10:30	1.50	DRLSUR	08	B	Z		CHANGE OUT CLUTCH #2 MUD PUMP
	10:30 - 11:00	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE
	11:00 - 21:00	10.00	DRLSUR	02	C	P		DRILL F/ 1946' - 2628' T.D. AVE ROP 68 FT HR WOB 20-22 ROT 55-60 DHR 96 OBP 1340 OFBP 1125 NO LOSSES LAST SURVEY 1.38 DEG 141.55 AZI
	21:00 - 21:30	0.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
	21:30 - 0:00	2.50	DRLSUR	06	A	P		TOOH LAYING DOWN, L/D DIRECTIONAL TOOLS MUD MOTOR, MWD TOOL, AND BIT
1/10/2011	0:00 - 1:30	1.50	DRLSUR	06	A	P		FINISH LDDS DIRECTIONAL TOOLS MUD MOTOR, MWD TOOL, AND BIT
	1:30 - 6:00	4.50	DRLSUR	12	E	P		CONDUCT SAFETY MEETING RIG UP AND RUN 58 JTS 8 5/8 SURFACE CASING SHOE AT 2582' FLOAT AT 2538'
	6:00 - 8:00	2.00	DRLSUR	12	E	P		HOLD SAFETY MEETING W/ SUPERIOR WELL SERVICES CEMENTERS. INSTALL CEMENT HEAD ON TOP OF LANDING JT. PRESSURE TEST LINE TO 2000 PSI. PUMP 50 BBLS OF WATER AHEAD, PUMP 20 BBLS OF GEL WATER. PUMP 200 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD, PUMP 225 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT. DROP PLUG ON FLY, DISPLACE W/ 144.5 BBLS OF WATER. 490 PSI OF LIFT @ 2 BBLS/MIN RATE. LOST CIRCULATION AFTER 130 BBLS OF DISPLACEMENT BUMP PLUG W/ 900 PSI. FLOAT HELD.
	8:00 - 8:30	0.50	DRLSUR	14	A	P		CUT CONDUCTOR AND HANG OFF SURFACE CASING AND RIG DOWN FLOW LINE
	8:30 - 9:30	1.00	DRLSUR	12	E	P		RUN 1" PIPE AND PUMP 35 SX 15.8# TAIL CEMENT, CEMENT TO SURFACE BUT FALLING WILL TOP OUT ON NEXT JOB RELEASE RIG 1-10-2011 @ 0930

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW Spud Conductor: 12/7/2010 Spud Date: 1/8/2011
 Project: UTAH-UINTAH Site: NBU 921-25J2 PAD Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
 Event: DRILLING Start Date: 12/7/2010 End Date: 2/28/2011
 Active Datum: RKB @4,944.00ft (above Mean Sea Level) UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:30 - 9:30	0.00	DRLSUR					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28 SPUD DATE/TIME: 1/8/2011 16:00 SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,628 Total SURFACE hours: 25.00 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,582.0 # sx of cement: 200/225/35 Cement blend (ppg): 11.0/15.8/15.8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: 0 Describe cement issues: LOST CIRCULATION AFTER 130 BBLs OF DISPLACEMENT Describe hole issues: NONE
2/20/2011	10:00 - 12:00	2.00	MIRU	01	C	P		SKID ON RIG,CHECK LEVEL
	12:00 - 14:00	2.00	MIRU	09	A	P		F/CSG,RURT,NUBOP,FLARE,FLOW LINES CUT & SLIP DRLG LINE 98'
	14:00 - 19:30	5.50	PRSPD	15	A	P		TEST BOP,ANNULAR 2500,RAMS.CHOKE,MANIFOLD,KILLLINE,FLOOR VALVES TO 5000,250 LOWS,CASING TO 1500 FOR 30 MIN,INSTALL 8" WEARRING
	19:30 - 0:00	4.50	PRSPD	06	A	P		P/U BHA -BIT & MTR #1,SCRIBE DIR TOOLS,REDOPE DIR CONNECTIONS,TIH TO 2480'
2/21/2011	0:00 - 1:00	1.00	DRLPRO	02	F	P		DRILL CEMENT & FE TO 2633'
	1:00 - 6:00	5.00	DRLPRO	02	D	P		SPUD 7.875 HOLE F/2633 TO 3277',AVG 128,WOB 18,RPM 40/112,GPM 490,STKS 100,PSI 950/1400,TORQ 4/6K,CIRC RES PIT
	6:00 - 8:00	2.00	DRLPRO	08	B	Z		TRIP TO SHOE, REPAIR 4" VALVE ON #1 PUMP,TIH
	8:00 - 12:00	4.00	DRLPRO	02	D	P		DIR DRILL F/3277' TO 3839=562,AVG 139,WOB 18,RPM 40/112,GPM 490,STKS 100,PSI 950/1400,TORQ 4/6K,CIRC RES PIT,SLIDE 3% RIG SERVICE
	12:00 - 12:30	0.50	DRLPRO	07	A	P		
	12:30 - 0:00	11.50	DRLPRO	02	D	P		DIR DRILL F/3839 TO 5450 =1611 ,AVG 140 ,WOB 18,RPM 40/112,GPM 490,STKS 100,PSI 1000/1500,TORQ 4/8K,CIRC RES PIT,SLIDE 6%
2/22/2011	0:00 - 2:30	2.50	DRLPRO	02	D	P		DIR DRILL F/ 5450 TO 5740 =290 ,AVG 116 ,WOB 18,RPM 40/112,GPM 490,STKS 100,PSI 1300/1800,TORQ 5/9K,CIRC RES PIT,SLIDE 3%
	2:30 - 6:30	4.00	DRLPRO	22	G	X		LOST RETURNS,PUMP 25% SWEEPS,MIX LCM & BUILD VOLUME 20%LCM PUMP TO REGAIN CIRC,TOTAL MUD LOST 400 BBLs,
	6:30 - 11:00	4.50	DRLPRO	02	D	P		DIR DRILL F/5740 TO 6194 =454,AVG 101 ,WOB 18,RPM 40/112,GPM 470,STKS 95,PSI 1500/2050,TORQ 5-9K,SLIDE 3%.,MW 9.8/35 8% LCM
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DIR DRILL F/6194 TO 7040 =846,AVG 68 ,WOB 18,RPM 40/112,GPM 470,STKS 95,PSI 1500/2050,TORQ 6-10K,SLIDE 2%.,MW 10.2/35 8% LCM
2/23/2011	0:00 - 2:00	2.00	DRLPRO	02	D	P		DIR DRILL F/7040 TO 7147' =107,AVG ,WOB 18,RPM 40/112,GPM 470,STKS 95,PSI 1500/2050,TORQ 6-10K,SLIDE 0%.,MW 10.5/38 10% LCM

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
Event: DRILLING	Start Date: 12/7/2010	End Date: 2/28/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	2:00 - 14:00	12.00	DRLPRO	05	A	S		MIX LCM & BUILD VOLUME, LOST 600 BBLs, POOH TO 4530', TIGHT F/5108-4625 REGAIN CIRC, 10.7/40 20% LCM, STAGE IN 5470, 6558,
	14:00 - 0:00	10.00	DRLPRO	02	D	P		DIR DRILL F/7147 TO 7500' =353, AVG 29, WOB 18, RPM 40/112, GPM 470, STKS 95, PSI 1500/2050, TORQ 6-10K, SLIDE 0%, MW 10.8/38 20% LCM
2/24/2011	0:00 - 10:00	10.00	DRLPRO	02	D	P		DIR DRILL F/7500' TO 8096 =596, AVG 59, WOB 20, RPM 30/110, GPM 445, STKS 90, PSI 1700/2100, TORQ 6-10K, SLIDE 0%, MW 11.1/38 20% LCM
	10:00 - 10:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	10:30 - 0:00	13.50	DRLPRO	02	D	P		DIR DRILL F/8096 TO 8735=639, AVG 47, WOB 20, RPM 30/110, GPM 445, STKS 90, PSI 1700/2100, TORQ 6-10K, SLIDE 1%, MW 11.5/42 20% LCM
2/25/2011	0:00 - 6:30	6.50	DRLPRO	02	D	P		DIR DRILL F/8735 TO 8883=146, AVG 24, WOB 22, RPM 30/110, GPM 445, STKS 90, PSI 2000/2300, TORQ 6-12K, SLIDE %, MW 11.6/42 20% LCM
	6:30 - 14:00	7.50	DRLPRO	06	A	P		FLOW CHECK, SURVEY, PUMP OUT 4 STNDS, POOH F/BIT, TIGHT SPOT 5080, 4320 CHANGE, L/D BIT & MTR
	14:00 - 14:30	0.50	DRLPRO	07	B	P		CHECK RIG F/LEVEL, RIG IS OK, NO ADJUSTMENT NEEDED
	14:30 - 23:00	8.50	DRLPRO	06	A	P		P/U /BIT #2,, SCRIBE, FILL PIPE, 2760, 5118, 7105, WASH 60' TO BTM, 10' FILL
	23:00 - 0:00	1.00	DRLPRO	02	D	P		DIR DRILL F/8883 TO 8930, AVG 47, WOB 18-20, RPM 30/72, GPM 445, STKS 90, PSI 2000/2300, TORQ 6-12K, SLIDE %, MW 11.7/42 20% LCM
2/26/2011	0:00 - 14:30	14.50	DRLPRO	02	D	P		DIR DRILL F/8930 TO TD 9635'=705, AVG 48, WOB 20, RPM 30/72, GPM 445, STKS 90, PSI 2000/2300, TORQ 6-12K, SLIDE %, MW 11.7/42 20% LCM
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:00 - 16:00	1.00	DRLPRO	05	B	P		CHECK FLOW, FINAL SURVEY@9577=2.79 DEG 184.45 AZI, RAISE MUD WT 12.1+/40, 25% LCM
	16:00 - 18:00	2.00	DRLPRO	06	E	P		SHORTTRIP 10 STNDS TO 8735, LOST 80 BBLs ON SHORTTRIP
	18:00 - 20:30	2.50	DRLPRO	05	C	P		CIRC BTMS UP TWICE, F/CASING RUN, 5' FLARE 30 MIN
	20:30 - 0:00	3.50	DRLPRO	06	A	P		FLOW CHECK OK, PUMP OUT 4 STNDS, PUMPPILL, POOH F/ CASING RUN
2/27/2011	0:00 - 6:00	6.00	DRLPRO	06	A	P		POOH F/CSG RUN
	6:00 - 6:30	0.50	CSG	14	B	P		PULL WEAR BUSHING, NO VISUAL WEAR, GOOD SHAPE, 8"ID
	6:30 - 15:00	8.50	CSG	12	C	P		SAFETY MEET RUN 4.5 11.6# I-80 BTC TO 7443, AVG TORQ ON CSG @5100, FILL@845, 2967', CIRC BTMS UP@, 6006', RUN TO 7443' TOOK 60 BBL KICK SHUT WELL IN
	15:00 - 0:00	9.00	CSG	12	C	S		CIRC THRU CHOKE, CSG 500 PSI, 40 STKS NO PSI, 12.2/40 20% LCM, KILL WELL@ 12.4/39 22%, LOST 200 BBLs, PIPE STUCK WORK PIPE 200K -40K NO JOY, PULL 260 STRING WT, PUMP 200 BBLs WATER, DISPLACE WATER 3050 STKS=6123-1620' ANNULAR COVERAGE, TOOK ANOTHER 40 BBL KICK, SHUT IN WELL

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW		Spud Conductor: 12/7/2010		Spud Date: 1/8/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD		Rig Name No: ENSIGN 139/139, CAPSTAR 310/310	
Event: DRILLING		Start Date: 12/7/2010		End Date: 2/28/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/28/2011	0:00 - 7:30	7.50	CSG	05	I	S		WORK STUCK CSG @ 7443',CIRC THRU CHOKE,BUILD & MIX MUD,SPOT 200 BBLS WATER,DIPLACE TO TOP,WORK CSG FREE
	7:30 - 9:00	1.50	CSG	12	C	P		FINISH CSG RUN 228 JTS 4.5 I-80 11.6# BTC TO SHOE DEPTH 9625,FC 9583,MARKERS @7431-4724',AVERAGE TORQ 5000#,,R/D FRANKS,INSTALL CEMENT HEAD
	9:00 - 11:00	2.00	CSG	05	D	P		CIRC BTMS UP THRU CHOKE,50' FLARE !!
	11:00 - 13:30	2.50	CSG	12	E	P		SAFETY MEET,R/U HALLIBURTON,PUMP 30 BBLS FRESH AHEAD,520 SX LEAD @12.4# 2.03 YLD,1050SX TAIL@14.3# 1.26 YLD,DISPLACE PLUG 149 BBLS CLAYFIX,FINAL LIFT 2680 PSI,BUMPPLUG 500 OVER,FLOATS HELD,1.5 BBL TO TRUCK,NO RETURNS DURING DISPLACEMENT.
	13:30 - 15:00	1.50	RDMO	14	A	P		FLUSH BOP,STRING WT 140K,SET CSG SLIPS W/105K TENSION,NDBOP,MAKE RUFFCUT ON CSG
	15:00 - 18:00	3.00	RDMO	01	E	P		CLEAN PITS,BLOW DOWN,CHOKE,PUMPS,HARDLINES,PREP F/SKID,RELEASE RIG @ 18:00 2/28/2011 TO THE NBU 921-25K1CS,GO TO NEXT WELL

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
Event: DRILLING	Start Date: 12/7/2010	End Date: 2/28/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 18:00	0.00	RDMO					<p>CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28</p> <p>SPUD DATE/TIME: 1/5/2011 21:30</p> <p>SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,633 Total SURFACE hours: 25.00 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,582.0 # sx of cement: 490 Cement blend (ppg): 15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: 0 Describe cement issues: NA Describe hole issues: NA</p> <p>PRODUCTION: Rig Move/Skid start date/time: 2/20/2011 10:00 Rig Move/Skid finish date/time: 2/20/2011 12:00 Total MOVE hours: 2.0 Prod Rig Spud date/time: 2/21/2011 0:00 Rig Release date/time: 2/28/2011 18:00 Total SPUD to RR hours: 186.0 Planned depth MD 9,616 Planned depth TVD 9,594 Actual MD: 9,635 Actual TVD: 9,611 Open Wells \$: \$867,586 AFE \$: \$774,712 Open wells \$/ft: \$90.05</p> <p>PRODUCTION HOLE: Prod. From depth: 2,633 Prod. To depth: 9,635 Total PROD hours: 97.5 Log Depth: NO LOGS/NO SONIC Float Collar Top Depth: 9583 Production Casing size: 4.5 BTC # of casing joints ran: 230 Casing set MD: 9,625.0 Stage 1 # sx of cement: 520LEAD 1050TAIL Cement density (ppg): 12.4/14.3 Cement yield (ft3/sk): 2.03/1.26 Stage 2 # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Top Out Cmt # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : Describe cement issues: Describe hole issues: 20% LCM MW 12.2,1800 LOST,STUCK CSG 7443',ON CHOKE W/BIG FLARE</p> <p>DIRECTIONAL INFO: KOP: 202 Max angle: 11.44@1148</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW		Spud Conductor: 12/7/2010		Spud Date: 1/8/2011				
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD		Rig Name No: ENSIGN 139/139, CAPSTAR 310/310			
Event: DRILLING		Start Date: 12/7/2010		End Date: 2/28/2011				
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								Departure: 363@9611 Max dogleg MD: 1.90@7499

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ROYAL WELL SERVICE 1/1
Event: COMPLETION	Start Date: 4/15/2011	End Date: 5/2/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)	UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/15/2011	11:00 - 13:00	2.00	COMP	33	C	P		PSI TEST FRAC VAVLES & CSG T/ 1000 PSI HOLD FOR 15 MIN. 0 PSI LOST. PSI T/ 3500 PSI FOR 15 MIN, 0 LOST. PSI TEST T/ 7000 PSI, LOST 65 PSI. 2ND ATTM PSI T/ 7000 PSI, LOST 30 PSI. GOOD TEST. BLEED OFF PSI. MOVE TO NEXT WELL. PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90, 120 & 180 DEG PHASING. RIH PERF F/ 9424'-25', 3 SPF, 3 HOLES. 9400'-01', 3 SPF, 3 HOLES. 9333'-34', 3 SPF, 3 HOLES. 9260'-61', 4 SPF, 4 HOLES. 9184'-85', 3 SPF, 3 HOLES. 9156'-57', 3 SPF, 3 HOLES. 9138'-39', 3 SPF, 3 HOLES. 9106'-07', 2 SPF, 2 HOLES. 24 TOTAL HOLES. POOH, SWI.
	13:00 - 14:00	1.00	COMP	37				

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25J2CS YELLOW Spud Conductor: 12/7/2010 Spud Date: 1/8/2011
 Project: UTAH-UINTAH Site: NBU 921-25J2 PAD Rig Name No: ROYAL WELL SERVICE 1/1
 Event: COMPLETION Start Date: 4/15/2011 End Date: 5/2/2011
 Active Datum: RKB @4,944.00ft (above Mean Sea Level) UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/18/2011	8:30 - 18:00	9.50	COMP	36	B	P		<p>FRAC STG 1)WHP 1500 PSI, BRK 3510 PSI @ 2.9 BPM. ISIP 3177 PSI, FG .78. PUMP 100 BBLS @ 51.9 BPM @ 5875 PSI = 100% HOLES OPEN. ISIP 2866 PSI, FG .75, NPI -311 PSI. MP 6372 PSI, MR 52.1 BPM, AP 5788 PSI, AR 50.3 BPM, PMP 957 BBLS SW & 24,237 LBS OF 30/50 SND & 5263 LBS OF 20/40 SLC SND. TOTAL PROP 29,500 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90, 120 & 180 DEG PHASING DEG PHASING. RIH SET CBP @ 9083' P/U PERF F/ 9052'-53', 3 SPF, 3 HOLES. 9030'-31', 3 SPF, 3 HOLES. 9006'-07', 3 SPF, 3 HOLES. 8986'-87', 4 SPF, 4 HOLES. 8954'-55', 2 SPF, 2 HOLES. 8889'-90', 3 SPF, 3 HOLES. 8861'-62', 2 SPF, 2 HOLES. 8811'-12', 4 SPF, 4 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 1477 PSI, BRK 2758 PSI @ 2.9 BPM. ISIP 2124 PSI, FG .68. PUMP 100 BBLS @ 27.9 BPM @ 5910 PSI = 70% HOLES OPEN. ISIP 2626 PSI, FG .73, NPI 502 PSI. MP 6651 PSI, MR 52.3 BPM, AP 5603 PSI, AR 50.5 BPM, PMP 1292 BBLS SW & 47,128 LBS OF 30/50 SND & 4627 LBS OF 20/40 SLC SND. TOTAL PROP 51,755 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8794' P/U PERF F/ 8762'-64', 4 SPF, 8 HOLES. 8702'-03', 4 SPF, 4 HOLES. 8570'-71', 4 SPF, 4 HOLES. 8536'-37', 4 SPF, 4 HOLES. 8502'-03', 4 SPF, 4 HOLES. 24 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3)WHP 2240 PSI, BRK 3241 PSI @ 4.7 BPM. ISIP 2753 PSI, FG .76. SHUT DOWN AFTER PUMPING 47 BBLS OF PAD T/ REPLACE VALVE ON BLEED OFF LINE. PUMP 100 BBLS @ 44.7 BPM @ 6101 PSI = 70% HOLES OPEN. ISIP 2482 PSI, FG .73, NPI -271 PSI. MP 6300 PSI, MR 51.5 BPM, AP 5593 PSI, AR 49.8 BPM, PMP 970 BBLS SW & 31,339 LBS OF 30/50 SND & 5120 LBS OF 20/40 SLC SND. TOTAL PROP 36,459 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8458' P/U PERF F/ 8426'-28', 4 SPF, 8 HOLES. 8382'-84', 3 SPF, 6 HOLES. 8364'-65', 4 SPF, 4 HOLES.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ROYAL WELL SERVICE 1/1
Event: COMPLETION	Start Date: 4/15/2011	End Date: 5/2/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								8255'-56', 4 SPF, 4 HOLES. 22 HOLES. POOH, SWIFN.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW Spud Conductor: 12/7/2010 Spud Date: 1/8/2011
 Project: UTAH-UINTAH Site: NBU 921-25J2 PAD Rig Name No: ROYAL WELL SERVICE 1/1
 Event: COMPLETION Start Date: 4/15/2011 End Date: 5/2/2011
 Active Datum: RKB @4,944.00ft (above Mean Sea Level) UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/19/2011	7:30 - 18:00	10.50	COMP	36	B	P		<p>FRAC STG 4)WHP 2066 PSI, BRK 4201 PSI @ 4.9 BPM. ISIP 3205 PSI, FG .82. PUMP 100 BBLS @ 44 BPM @ 5608 PSI = 100% HOLES OPEN. ISIP 2494 PSI, FG .74, NPI -711 PSI. MP 6274 PSI, MR 50.9 BPM, AP 5645 PSI, AR 49.1 BPM, PMP 622 BBLS SW & 16,419 LBS OF 30/50 SND & 5082 LBS OF 20/40 SLC SND. TOTAL PROP 21,501 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8152' P/U PERF F/ 8101'-02', 4 SPF, 4 HOLES. 8076'-77', 3 SPF, 3 HOLES. 8003'-04', 3 SPF, 3 HOLES. 7982'-83', 3 SPF, 3 HOLES. 7870'-71', 4 SPF, 4 HOLES. 7829'-30', 3 SPF, 3 HOLES. 7810'-11', 4 SPF, 4 HOLES. 24 TOTAL HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 5)WHP 1509 PSI, BRK 5993 PSI @ 4.6 BPM. ISIP 3540 PSI, FG .88. PUMP 100 BBLS @ 46.2 BPM @ 6254 PSI = 86% HOLES OPEN. ISIP 2331 PSI, FG .73, NPI -1209 PSI. MP 6715 PSI, MR 53.8 BPM, AP 5996 PSI, AR 50 BPM, PMP 928 BBLS SW & 30,693 LBS OF 30/50 SND & 5119 LBS OF 20/40 SLC SND. TOTAL PROP 35,812 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7760' P/U PERF F/ 7728'-30', 4 SPF, 8 HOLES. 7645'-46', 4 SPF, 4 HOLES. 7620'-21', 4 SPF, 4 HOLES. 7596'-97', 4 SPF, 4 HOLES. 7578'-79', 4 SPF, 4 HOLES. 24 HOLES.</p> <p>FRAC STG 6)WHP 1899 PSI, BRK 2253 PSI @ 4.5 BPM. ISIP 1927 PSI, FG .69. PUMP 100 BBLS @ 50.5 BPM @ 5640 PSI = 75% HOLES OPEN. ISIP 2094 PSI, FG .71, NPI 167 PSI. MP 5812 PSI, MR 53.5 BPM, AP 4666 PSI, AR 51.9 BPM, PMP 1155 BBLS SW & 41,105 LBS OF 30/50 SND & 4686 LBS OF 20/40 SLC SND. TOTAL PROP 45,791 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7526' P/U PERF F/ 7495'-96', 4 SPF, 4 HOLES. 7483'-84', 4 SPF, 4 HOLES. 7470'-71', 4 SPF, 4 HOLES. 7451'-53', 4 SPF, 8 HOLES. 7417'-18', 4 SPF, 4 HOLES. 24 TOTAL HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 457 PSI, BRK 2135 PSI @ 3.9</p>

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ROYAL WELL SERVICE 1/1
Event: COMPLETION	Start Date: 4/15/2011	End Date: 5/2/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/29/2011	7:00 - 16:00	9.00	COMP	30	A	P		<p>BPM. ISIP 1496 PSI, FG .64. PUMP 100 BBLS @ 50.7 BPM @ 4457 PSI = 89% HOLES OPEN. ISIP 2234 PSI, FG .74, NPI 738 PSI. MP 5448 PSI, MR 54.2 BPM, AP 4573 PSI, AR 52.3 BPM, PMP 1360 BBLS SW & 51,757 LBS OF 30/50 SND & 5399 LBS OF 20/40 SLC SND. TOTAL PROP 57,156 LBS. SWI, X-OVER FOR WL.</p> <p>PU 4 1/2 8K HAL CBP. RIH SET @ 7367'. POOH. SWI. DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 277,974 LBS TOTAL CLFL = 7284 BBLS TOTAL SCALE = 739 GAL TOTAL BIO = 156 GAL 7AM [DAY4] JSA--P/U TBG, DRLG PLUGS, WIND, TRIPS, SLIPS, FALLS.</p> <p>MIRU YESTERDAY. P/U 3-7/8" BIT, POBS W/ XN NIPPLE, NEW 2-3/8" L-80 TBG & RIH. [SLM & DRIFTED] TAG SAND @ 7342'. R/U SWVL & RIG PUMP. ESTABLISH CIRCULATION. P.T. SURFACE LINES & BOP TO 3000#. LOSS 0# IN 15 MINUTES. C/O 25' SAND TO CBP#1. FCP=50#.</p> <p>[DRLG CBP#1] @ 7367'. D/O HALL 8K CBP IN 5 MIN. 400# INC. RIH & C/O 20' SAND TO CBP#2. FCP=460#.</p> <p>[DRLG CBP#2] @ 7526'. D/O HALL 8K CBP IN 6 MIN. 100# INC. RIH & C/O 30' SAND TO CBP#3. FCP=300#.</p> <p>[DRLG CBP#3] @ 7760'. D/O HALL 8K CBP IN 6 MIN. 60# INC. RIH & C/O 160' SAND TO CBP#4. FCP=200#.</p> <p>[DRLG CBP#4] @ 8140'. D/O HALL 8K CBP IN 5 MIN. 20# INC. RIH & C/O 40' SAND TO CBP#5. CIRCULATE WELL CLEAN. PUH W/ EOT @ 8427'. FCP=250#.</p> <p>4 PM SWI-SDF-WE. PREP TO D/O 3 MORE PLUGS & LAND TBG ON MONDAY 5/2/11</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW Spud Conductor: 12/7/2010 Spud Date: 1/8/2011
 Project: UTAH-UINTAH Site: NBU 921-25J2 PAD Rig Name No: ROYAL WELL SERVICE 1/1
 Event: COMPLETION Start Date: 4/15/2011 End Date: 5/2/2011
 Active Datum: RKB @4,944.00ft (above Mean Sea Level) UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

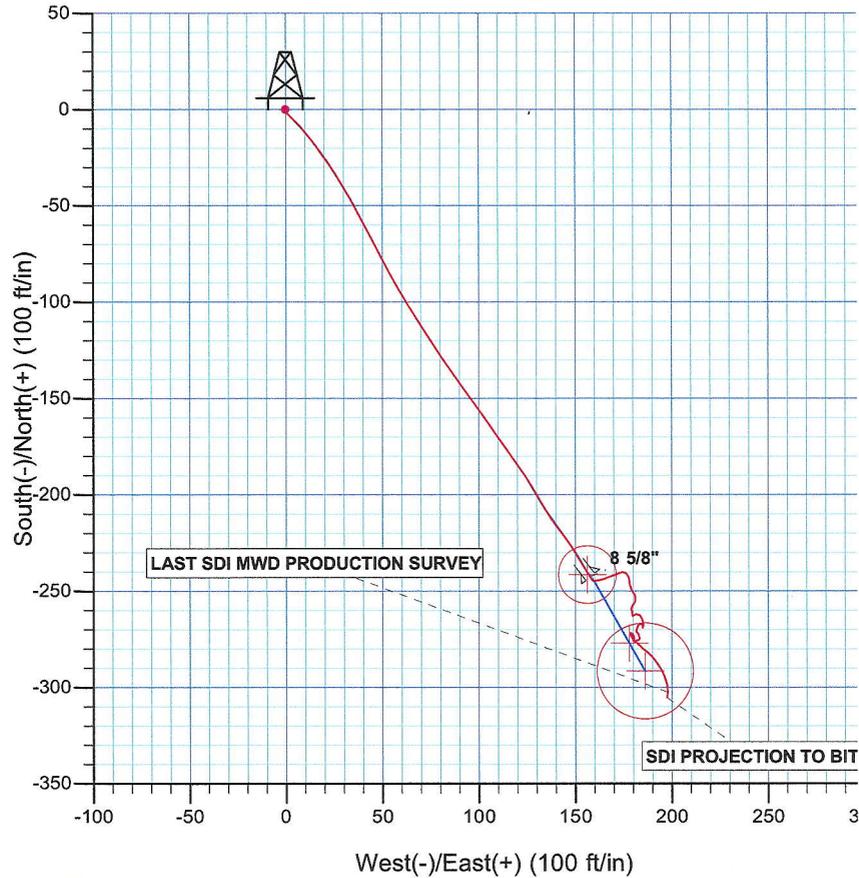
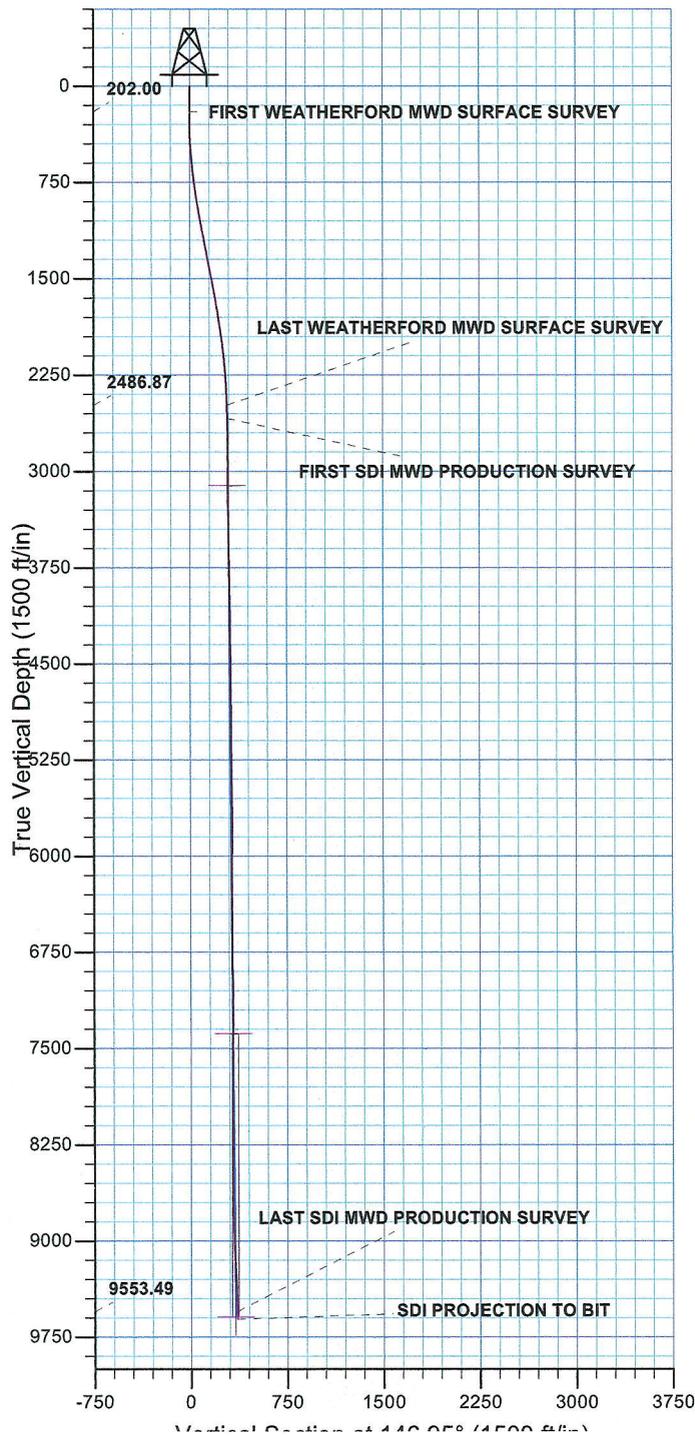
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/2/2011	7:00 - 17:00	10.00	COMP	30		P		<p>7AM [DAY 5] JSA-- BLEEDING OFF PSI, DRLG PUGS, LANDING TBG, R/D RIG, R/U RIG.NDWH, NUBOP.</p> <p>WE-SITP=0#, WE-SICP=3600#. EOT @ 8427'. OPEN WELL TO PIT. BLEW DOWN TO 1000# IN 45 MIN. ESTABLISH CIRCULATION. CONTINUE D/O PLUGS. FCP=540#</p> <p>[DRLG CBP#5] @ 8458'. D/O HALL 8K CBP IN 7 MIN. 60# INC. RIH & C/O 40' SAND TO CBP#6. FCP=600#.</p> <p>[DRLG CBP#6] @ 8794'. D/O HALL 8K CBP IN 5 MIN. 200# INC. RIH & C/O 30' SAND TO CBP#7. FCP=800#.</p> <p>[DRLG CBP#7] @ 9083'. D/O HALL 8K CBP IN 4 MIN. 40# INC. RIH & TAG SAND @ 9425'. C/O 155' SAND TO PBTD @ 9580'. CIRCULATE WELL CLEAN. R/D SWVL. FCP=750#. POOH & L/D 25 JTS ON FLOAT. LAND TBG ON HANGER W/ 277 JTS NEW 2-3/8" L-80 TBG. EOT @ 8794.07', POBS W/ XN @ 8791.87'. R/D FLOOR & TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DN TBG & PMP OFF THE BIT @ 2200#. OPEN WELL TO FBT ON OPEN CHOKE. FTP=2000#, SICP=2100#.</p> <p>12 PM TURN WELL OVER TO DELSCO FBC & APC MAINT CREW. SELLIND GAS @ 2.6 MCF DAILY RATE. RIG PMPD 275 BBLS. LTR= 5485 BBLS. RACK EQUIP. R/D RIG. MOVE OVER & R/U ON NBU 921-25K1CS. GREEN WELL. NDWH, NUBOP. R/U FLOOR & TBG EQUIP. P/U 3-7/8" MILL, POBS W/ XN NIPPLE, NEW 2-3/8" L-80 TBG & RIH. EOT @ 2480'.</p> <p>5PM SDFN</p> <p>315 JTS DELIV 277 JTS LANDED 37 JTS RETURNED 1 JUNK</p>
	17:00 - 17:00	0.00	PROD	50				<p>WELL TURNED TO SALES @ 1230 HR ON 5/2/11 - 2600 MCFD, 1920 BWPD, CP 2200#, FTP 50#, CK 20/64"</p>
5/5/2011	7:00 -			50				<p>WELL IP'D ON 5/5/11 - 2400 MCFD, 0 BOPD, 524 BWPD, CP 2600#, FTP 1850#, CK 20/64", LP 121#, 24 HRS</p>

WELL DETAILS: NBU 921-25J2CS					
GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14532100.18	2060684.15	40° 0' 24.883 N	109° 29' 57.250 W



Azimuths to True North
Magnetic North: 11.12°

Magnetic Field
 Strength: 52367.0snT
 Dip Angle: 65.88°
 Date: 02/11/2011
 Model: IGRF2010



PROJECT DETAILS: Uintah County, UT UTM12	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 - Western US
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SEC 25 T9S R21E
System Datum:	Mean Sea Level



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-25J2 Pad
NBU 921-25J2CS**

OH

Design: OH

Standard Survey Report

01 March, 2011

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference: Well NBU 921-25J2CS
Project: Uintah County, UT UTM12	TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
Site: NBU 921-25J2 Pad	MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
Well: NBU 921-25J2CS	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-25J2 Pad, SEC 25 T9S R21E				
Site Position:		Northing:	14,532,105.07 usft	Latitude:	40° 0' 24.930 N
From:	Lat/Long	Easting:	2,060,692.75 usft	Longitude:	109° 29' 57.138 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.97 °

Well	NBU 921-25J2CS, 2601' FSL 2596' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,532,100.19 usft	Latitude:	40° 0' 24.883 N
	+E/-W	0.00 ft	Easting:	2,060,684.15 usft	Longitude:	109° 29' 57.250 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,930.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/11/2011	11.12	65.88	52,367

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	146.95	

Survey Program	Date	03/01/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
5.00	2,509.00	Survey #1 WEATHERFORD MWD SURVE	MWD	MWD - Standard	
2,611.00	9,635.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00
202.00	0.62	304.70	202.00	0.61	-0.88	-0.99	0.31	0.31	0.00
FIRST WEATHERFORD MWD SURFACE SURVEY									
294.00	0.84	140.48	293.99	0.37	-0.86	-0.78	1.57	0.24	-178.50
388.00	2.69	141.76	387.94	-1.89	0.95	2.10	1.97	1.97	1.36
483.00	3.81	132.05	482.79	-5.76	4.67	7.37	1.31	1.18	-10.22
578.00	5.00	139.92	577.51	-11.04	9.68	14.53	1.40	1.25	8.28
674.00	6.50	144.17	673.02	-18.65	15.56	24.11	1.62	1.56	4.43
769.00	7.56	145.67	767.31	-28.17	22.23	35.73	1.13	1.12	1.58

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25J2 Pad
Well: NBU 921-25J2CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25J2CS
TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
864.00	8.75	149.05	861.35	-39.53	29.47	49.20	1.35	1.25	3.56	
959.00	10.13	152.30	955.06	-53.12	37.07	64.74	1.56	1.45	3.42	
1,053.00	10.88	152.17	1,047.48	-68.29	45.05	81.81	0.80	0.80	-0.14	
1,148.00	11.44	151.92	1,140.69	-84.53	53.67	100.12	0.59	0.59	-0.26	
1,243.00	10.31	148.05	1,233.98	-100.05	62.61	118.01	1.42	-1.19	-4.07	
1,339.00	10.00	148.55	1,328.48	-114.45	71.50	134.93	0.34	-0.32	0.52	
1,434.00	10.55	145.55	1,421.95	-128.66	80.73	151.87	0.81	0.58	-3.16	
1,528.00	11.20	143.71	1,514.26	-143.12	91.00	169.59	0.78	0.69	-1.96	
1,622.00	11.44	145.05	1,606.44	-158.12	101.74	188.02	0.38	0.26	1.43	
1,718.00	10.00	144.80	1,700.76	-172.73	112.00	205.86	1.50	-1.50	-0.26	
1,813.00	8.25	144.67	1,794.55	-185.03	120.70	220.92	1.84	-1.84	-0.14	
1,907.00	7.63	150.67	1,887.65	-195.98	127.65	233.88	1.10	-0.66	6.38	
2,003.00	7.50	147.55	1,982.82	-206.82	134.14	246.51	0.45	-0.14	-3.25	
2,098.00	7.00	143.67	2,077.06	-216.71	140.89	258.49	0.74	-0.53	-4.08	
2,193.00	5.44	145.67	2,171.50	-225.10	146.86	268.77	1.66	-1.64	2.11	
2,288.00	4.13	149.30	2,266.16	-231.76	151.15	276.69	1.41	-1.38	3.82	
2,382.00	3.19	149.17	2,359.97	-236.91	154.22	282.69	1.00	-1.00	-0.14	
2,477.00	1.75	147.30	2,454.88	-240.41	156.36	286.78	1.52	-1.52	-1.97	
2,509.00	1.38	141.55	2,486.87	-241.12	156.86	287.65	1.25	-1.16	-17.97	
LAST WEATHERFORD MWD SURFACE SURVEY										
2,611.00	0.75	159.11	2,588.85	-242.70	157.86	289.53	0.69	-0.62	17.22	
FIRST SDI MWD PRODUCTION SURVEY										
2,702.00	1.11	147.17	2,679.84	-244.00	158.55	290.99	0.45	0.40	-13.12	
2,792.00	1.94	87.60	2,769.81	-244.67	160.55	292.64	1.86	0.92	-66.19	
2,883.00	2.62	70.15	2,860.74	-243.90	164.04	293.90	1.06	0.75	-19.18	
2,973.00	2.22	69.39	2,950.66	-242.59	167.61	294.74	0.45	-0.44	-0.84	
3,064.00	1.73	67.09	3,041.60	-241.43	170.52	295.36	0.55	-0.54	-2.53	
3,154.00	1.44	72.32	3,131.57	-240.56	172.85	295.90	0.36	-0.32	5.81	
3,245.00	0.85	85.28	3,222.55	-240.16	174.61	296.53	0.70	-0.65	14.24	
3,336.00	0.78	109.37	3,313.54	-240.31	175.87	297.34	0.38	-0.08	26.47	
3,426.00	0.81	146.99	3,403.53	-241.04	176.80	298.46	0.57	0.03	41.80	
3,517.00	0.91	157.59	3,494.52	-242.25	177.42	299.81	0.21	0.11	11.65	
3,607.00	1.01	168.63	3,584.51	-243.69	177.85	301.25	0.23	0.11	12.27	
3,697.00	1.24	177.01	3,674.49	-245.44	178.06	302.83	0.31	0.26	9.31	
3,788.00	0.44	151.55	3,765.48	-246.73	178.28	304.03	0.95	-0.88	-27.98	
3,879.00	0.71	149.46	3,856.48	-247.52	178.73	304.94	0.30	0.30	-2.30	
3,969.00	1.20	169.04	3,946.47	-248.93	179.19	306.37	0.65	0.54	21.76	
4,060.00	0.87	130.41	4,037.45	-250.31	179.90	307.92	0.83	-0.36	-42.45	
4,150.00	0.85	161.00	4,127.44	-251.39	180.64	309.22	0.50	-0.02	33.99	
4,241.00	1.01	163.12	4,218.43	-252.79	181.09	310.65	0.18	0.18	2.33	
4,331.00	0.63	196.67	4,308.42	-254.02	181.18	311.73	0.66	-0.42	37.28	
4,422.00	1.06	178.70	4,399.41	-255.34	181.05	312.77	0.55	0.47	-19.75	
4,512.00	1.14	226.84	4,489.40	-256.79	180.42	313.63	1.00	0.09	53.49	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25J2 Pad
Well: NBU 921-25J2CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25J2CS
TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,603.00	1.34	205.67	4,580.38	-258.37	179.30	314.34	0.55	0.22	-23.26
4,694.00	0.54	142.65	4,671.36	-259.67	179.10	315.33	1.31	-0.88	-69.25
4,784.00	0.87	172.25	4,761.36	-260.68	179.45	316.37	0.53	0.37	32.89
4,875.00	1.08	174.52	4,852.34	-262.22	179.62	317.75	0.23	0.23	2.49
4,965.00	0.34	56.57	4,942.34	-262.92	179.92	318.50	1.42	-0.82	-131.06
5,056.00	0.74	48.32	5,033.34	-262.38	180.59	318.41	0.45	0.44	-9.07
5,146.00	0.66	90.01	5,123.33	-261.99	181.54	318.61	0.56	-0.09	46.32
5,237.00	0.54	108.41	5,214.32	-262.13	182.47	319.23	0.25	-0.13	20.22
5,327.00	0.49	119.44	5,304.32	-262.45	183.21	319.90	0.12	-0.06	12.26
5,418.00	0.70	151.93	5,395.32	-263.13	183.81	320.80	0.43	0.23	35.70
5,508.00	0.81	149.17	5,485.31	-264.16	184.39	321.98	0.13	0.12	-3.07
5,598.00	0.79	161.91	5,575.30	-265.30	184.91	323.22	0.20	-0.02	14.16
5,689.00	0.90	167.58	5,666.29	-266.59	185.26	324.49	0.15	0.12	6.23
5,779.00	1.19	189.39	5,756.27	-268.21	185.26	325.84	0.54	0.32	24.23
5,870.00	0.17	277.30	5,847.27	-269.12	184.97	326.45	1.31	-1.12	96.60
5,961.00	0.87	3.44	5,938.26	-268.41	184.88	325.81	0.96	0.77	94.66
6,051.00	0.35	345.29	6,028.26	-267.47	184.85	325.00	0.61	-0.58	-20.17
6,142.00	0.50	292.58	6,119.26	-267.04	184.41	324.41	0.44	0.16	-57.92
6,232.00	0.36	261.90	6,209.25	-266.93	183.77	323.97	0.29	-0.16	-34.09
6,322.00	0.42	234.43	6,299.25	-267.17	183.22	323.86	0.22	0.07	-30.52
6,413.00	0.68	209.59	6,390.25	-267.83	182.69	324.12	0.38	0.29	-27.30
6,503.00	0.64	206.15	6,480.24	-268.74	182.20	324.63	0.06	-0.04	-3.82
6,594.00	1.28	193.15	6,571.23	-270.19	181.75	325.59	0.74	0.70	-14.29
6,685.00	0.12	59.87	6,662.22	-271.13	181.60	326.30	1.50	-1.27	-146.46
6,775.00	0.24	133.57	6,752.22	-271.22	181.81	326.49	0.26	0.13	81.89
6,866.00	0.34	122.72	6,843.22	-271.49	182.18	326.92	0.12	0.11	-11.92
6,956.00	0.59	167.25	6,933.22	-272.09	182.51	327.60	0.47	0.28	49.48
7,047.00	0.70	159.03	7,024.21	-273.07	182.81	328.58	0.16	0.12	-9.03
7,137.00	0.99	164.97	7,114.20	-274.33	183.21	329.86	0.34	0.32	6.60
7,228.00	0.41	233.61	7,205.20	-275.28	183.15	330.62	1.01	-0.64	75.43
7,318.00	0.81	272.38	7,295.19	-275.45	182.25	330.27	0.61	0.44	43.08
7,409.00	0.93	236.15	7,386.18	-275.83	181.00	329.91	0.61	0.13	-39.81
7,499.00	1.23	340.22	7,476.17	-275.33	180.07	328.98	1.90	0.33	115.63
7,590.00	0.73	324.32	7,567.16	-273.94	179.40	327.45	0.62	-0.55	-17.47
7,680.00	0.75	337.10	7,657.15	-272.93	178.83	326.30	0.18	0.02	14.20
7,771.00	0.27	306.26	7,748.15	-272.26	178.43	325.51	0.59	-0.53	-33.89
7,862.00	0.31	57.76	7,839.15	-272.00	178.46	325.32	0.53	0.04	122.53
7,952.00	0.31	72.75	7,929.14	-271.79	178.90	325.38	0.09	0.00	16.66
8,043.00	0.50	136.82	8,020.14	-272.01	179.41	325.84	0.50	0.21	70.41
8,133.00	1.01	153.46	8,110.13	-273.01	180.03	327.02	0.61	0.57	18.49
8,224.00	0.84	168.99	8,201.12	-274.38	180.52	328.43	0.33	-0.19	17.07
8,314.00	0.55	235.56	8,291.12	-275.27	180.29	329.05	0.89	-0.32	73.97
8,405.00	0.20	88.92	8,382.12	-275.52	180.09	329.15	0.80	-0.38	-161.14
8,495.00	0.34	195.64	8,472.12	-275.77	180.17	329.41	0.49	0.16	118.58

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25J2 Pad
Well: NBU 921-25J2CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25J2CS
TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,586.00	0.55	103.33	8,563.11	-276.13	180.52	329.90	0.72	0.23	-101.44
8,676.00	0.85	120.53	8,653.11	-276.57	181.52	330.81	0.40	0.33	19.11
8,767.00	1.04	131.51	8,744.10	-277.46	182.72	332.21	0.29	0.21	12.07
8,857.00	1.18	140.01	8,834.08	-278.71	183.93	333.92	0.24	0.16	9.44
8,948.00	1.67	125.94	8,925.05	-280.21	185.60	336.09	0.66	0.54	-15.46
9,038.00	1.99	131.52	9,015.00	-282.01	187.83	338.82	0.41	0.36	6.20
9,129.00	2.11	136.93	9,105.95	-284.28	190.16	341.99	0.25	0.13	5.95
9,219.00	2.69	145.32	9,195.87	-287.23	192.49	345.74	0.75	0.64	9.32
9,310.00	2.75	152.48	9,286.76	-290.92	194.72	350.04	0.38	0.07	7.87
9,400.00	2.63	158.03	9,376.67	-294.75	196.49	354.22	0.32	-0.13	6.17
9,491.00	2.41	168.44	9,467.58	-298.56	197.65	358.05	0.56	-0.24	11.44
9,577.00	2.79	184.45	9,553.49	-302.42	197.85	361.39	0.95	0.44	18.62
LAST SDI MWD PRODUCTION SURVEY									
9,635.00	2.79	184.45	9,611.42	-305.24	197.63	363.63	0.00	0.00	0.00
SDI PROJECTION TO BIT									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
202.00	202.00	0.61	-0.88	FIRST WEATHERFORD MWD SURFACE SURVEY
2,509.00	2,486.87	-241.12	156.86	LAST WEATHERFORD MWD SURFACE SURVEY
2,611.00	2,588.85	-242.70	157.86	FIRST SDI MWD PRODUCTION SURVEY
9,577.00	9,553.49	-302.42	197.85	LAST SDI MWD PRODUCTION SURVEY
9,635.00	9,611.42	-305.24	197.63	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-25J2 Pad
NBU 921-25J2CS**

OH

Design: OH

Survey Report - Geographic

01 March, 2011

Company: Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference: Well NBU 921-25J2CS
Project: Uintah County, UT UTM12	TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
Site: NBU 921-25J2 Pad	MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
Well: NBU 921-25J2CS	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-25J2 Pad, SEC 25 T9S R21E		
Site Position:	Northing:	14,532,105.07 usft	Latitude: 40° 0' 24.930 N
From: Lat/Long	Easting:	2,060,692.75 usft	Longitude: 109° 29' 57.138 W
Position Uncertainty: 0.00 ft	Slot Radius: 13.200 in	Grid Convergence:	0.97 °

Well	NBU 921-25J2CS, 2601' FSL 2596' FEL		
Well Position	+N/-S 0.00 ft	Northing: 14,532,100.19 usft	Latitude: 40° 0' 24.883 N
	+E/-W 0.00 ft	Easting: 2,060,684.15 usft	Longitude: 109° 29' 57.250 W
Position Uncertainty	0.00 ft	Wellhead Elevation: ft	Ground Level: 4,930.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/11/2011	11.12	65.88	52,367

Design	OH				
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth:	0.00		
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	146.95	

Survey Program	Date 03/01/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
5.00	2,509.00	Survey #1 WEATHERFORD MWD SURVE	MWD	MWD - Standard
2,611.00	9,635.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,532,100.19	2,060,684.15	40° 0' 24.883 N	109° 29' 57.250 W
5.00	0.00	0.00	5.00	0.00	0.00	14,532,100.19	2,060,684.15	40° 0' 24.883 N	109° 29' 57.250 W
202.00	0.62	304.70	202.00	0.61	-0.88	14,532,100.78	2,060,683.26	40° 0' 24.889 N	109° 29' 57.261 W
FIRST WEATHERFORD MWD SURFACE SURVEY									
294.00	0.84	140.48	293.99	0.37	-0.86	14,532,100.54	2,060,683.28	40° 0' 24.887 N	109° 29' 57.261 W
388.00	2.69	141.76	387.94	-1.89	0.95	14,532,098.31	2,060,685.12	40° 0' 24.864 N	109° 29' 57.237 W
483.00	3.81	132.05	482.79	-5.76	4.67	14,532,094.51	2,060,688.91	40° 0' 24.826 N	109° 29' 57.190 W
578.00	5.00	139.92	577.51	-11.04	9.68	14,532,089.31	2,060,694.01	40° 0' 24.774 N	109° 29' 57.125 W
674.00	6.50	144.17	673.02	-18.65	15.56	14,532,081.80	2,060,700.01	40° 0' 24.699 N	109° 29' 57.050 W
769.00	7.56	145.67	767.31	-28.17	22.23	14,532,072.40	2,060,706.84	40° 0' 24.605 N	109° 29' 56.964 W
864.00	8.75	149.05	861.35	-39.53	29.47	14,532,061.16	2,060,714.28	40° 0' 24.492 N	109° 29' 56.871 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25J2CS
TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
959.00	10.13	152.30	955.06	-53.12	37.07	14,532,047.70	2,060,722.10	40° 0' 24.358 N	109° 29' 56.773 W	
1,053.00	10.88	152.17	1,047.48	-68.29	45.05	14,532,032.67	2,060,730.34	40° 0' 24.208 N	109° 29' 56.671 W	
1,148.00	11.44	151.92	1,140.69	-84.53	53.67	14,532,016.58	2,060,739.23	40° 0' 24.048 N	109° 29' 56.560 W	
1,243.00	10.31	148.05	1,233.98	-100.05	62.61	14,532,001.20	2,060,748.43	40° 0' 23.894 N	109° 29' 56.445 W	
1,339.00	10.00	148.55	1,328.48	-114.45	71.50	14,531,986.95	2,060,757.56	40° 0' 23.752 N	109° 29' 56.331 W	
1,434.00	10.55	145.55	1,421.95	-128.66	80.73	14,531,972.90	2,060,767.03	40° 0' 23.611 N	109° 29' 56.212 W	
1,528.00	11.20	143.71	1,514.26	-143.12	91.00	14,531,958.62	2,060,777.54	40° 0' 23.469 N	109° 29' 56.080 W	
1,622.00	11.44	145.05	1,606.44	-158.12	101.74	14,531,943.81	2,060,788.53	40° 0' 23.320 N	109° 29' 55.942 W	
1,718.00	10.00	144.80	1,700.76	-172.73	112.00	14,531,929.37	2,060,799.04	40° 0' 23.176 N	109° 29' 55.810 W	
1,813.00	8.25	144.67	1,794.55	-185.03	120.70	14,531,917.21	2,060,807.94	40° 0' 23.054 N	109° 29' 55.698 W	
1,907.00	7.63	150.67	1,887.65	-195.98	127.65	14,531,906.39	2,060,815.08	40° 0' 22.946 N	109° 29' 55.609 W	
2,003.00	7.50	147.55	1,982.82	-206.82	134.14	14,531,895.66	2,060,821.75	40° 0' 22.839 N	109° 29' 55.526 W	
2,098.00	7.00	143.67	2,077.06	-216.71	140.89	14,531,885.88	2,060,828.67	40° 0' 22.741 N	109° 29' 55.439 W	
2,193.00	5.44	145.67	2,171.50	-225.10	146.86	14,531,877.60	2,060,834.78	40° 0' 22.658 N	109° 29' 55.362 W	
2,288.00	4.13	149.30	2,266.16	-231.76	151.15	14,531,871.01	2,060,839.18	40° 0' 22.592 N	109° 29' 55.307 W	
2,382.00	3.19	149.17	2,359.97	-236.91	154.22	14,531,865.90	2,060,842.33	40° 0' 22.541 N	109° 29' 55.267 W	
2,477.00	1.75	147.30	2,454.88	-240.41	156.36	14,531,862.45	2,060,844.53	40° 0' 22.507 N	109° 29' 55.240 W	
2,509.00	1.38	141.55	2,486.87	-241.12	156.86	14,531,861.75	2,060,845.04	40° 0' 22.500 N	109° 29' 55.233 W	
LAST WEATHERFORD MWD SURFACE SURVEY										
2,611.00	0.75	159.11	2,588.85	-242.70	157.86	14,531,860.18	2,060,846.07	40° 0' 22.484 N	109° 29' 55.221 W	
FIRST SDI MWD PRODUCTION SURVEY										
2,702.00	1.11	147.17	2,679.84	-244.00	158.55	14,531,858.89	2,060,846.78	40° 0' 22.471 N	109° 29' 55.212 W	
2,792.00	1.94	87.60	2,769.81	-244.67	160.55	14,531,858.26	2,060,848.79	40° 0' 22.465 N	109° 29' 55.186 W	
2,883.00	2.62	70.15	2,860.74	-243.90	164.04	14,531,859.09	2,060,852.27	40° 0' 22.472 N	109° 29' 55.141 W	
2,973.00	2.22	69.39	2,950.66	-242.59	167.61	14,531,860.46	2,060,855.81	40° 0' 22.485 N	109° 29' 55.095 W	
3,064.00	1.73	67.09	3,041.60	-241.43	170.52	14,531,861.66	2,060,858.71	40° 0' 22.497 N	109° 29' 55.058 W	
3,154.00	1.44	72.32	3,131.57	-240.56	172.85	14,531,862.57	2,060,861.02	40° 0' 22.505 N	109° 29' 55.028 W	
3,245.00	0.85	85.28	3,222.55	-240.16	174.61	14,531,863.01	2,060,862.78	40° 0' 22.509 N	109° 29' 55.005 W	
3,336.00	0.78	109.37	3,313.54	-240.31	175.87	14,531,862.88	2,060,864.04	40° 0' 22.508 N	109° 29' 54.989 W	
3,426.00	0.81	146.99	3,403.53	-241.04	176.80	14,531,862.16	2,060,864.98	40° 0' 22.501 N	109° 29' 54.977 W	
3,517.00	0.91	157.59	3,494.52	-242.25	177.42	14,531,860.96	2,060,865.62	40° 0' 22.489 N	109° 29' 54.969 W	
3,607.00	1.01	168.63	3,584.51	-243.69	177.85	14,531,859.53	2,060,866.07	40° 0' 22.474 N	109° 29' 54.964 W	
3,697.00	1.24	177.01	3,674.49	-245.44	178.06	14,531,857.78	2,060,866.31	40° 0' 22.457 N	109° 29' 54.961 W	
3,788.00	0.44	151.55	3,765.48	-246.73	178.28	14,531,856.50	2,060,866.55	40° 0' 22.444 N	109° 29' 54.958 W	
3,879.00	0.71	149.46	3,856.48	-247.52	178.73	14,531,855.71	2,060,867.02	40° 0' 22.437 N	109° 29' 54.952 W	
3,969.00	1.20	169.04	3,946.47	-248.93	179.19	14,531,854.31	2,060,867.50	40° 0' 22.423 N	109° 29' 54.946 W	
4,060.00	0.87	130.41	4,037.45	-250.31	179.90	14,531,852.94	2,060,868.23	40° 0' 22.409 N	109° 29' 54.937 W	
4,150.00	0.85	161.00	4,127.44	-251.39	180.64	14,531,851.88	2,060,868.99	40° 0' 22.398 N	109° 29' 54.928 W	
4,241.00	1.01	163.12	4,218.43	-252.79	181.09	14,531,850.48	2,060,869.46	40° 0' 22.384 N	109° 29' 54.922 W	
4,331.00	0.63	196.67	4,308.42	-254.02	181.18	14,531,849.25	2,060,869.57	40° 0' 22.372 N	109° 29' 54.921 W	
4,422.00	1.06	178.70	4,399.41	-255.34	181.05	14,531,847.93	2,060,869.47	40° 0' 22.359 N	109° 29' 54.923 W	
4,512.00	1.14	226.84	4,489.40	-256.79	180.42	14,531,846.47	2,060,868.86	40° 0' 22.345 N	109° 29' 54.931 W	
4,603.00	1.34	205.67	4,580.38	-258.37	179.30	14,531,844.88	2,060,867.77	40° 0' 22.329 N	109° 29' 54.945 W	
4,694.00	0.54	142.65	4,671.36	-259.67	179.10	14,531,843.57	2,060,867.59	40° 0' 22.317 N	109° 29' 54.948 W	
4,784.00	0.87	172.25	4,761.36	-260.68	179.45	14,531,842.57	2,060,867.96	40° 0' 22.307 N	109° 29' 54.943 W	
4,875.00	1.08	174.52	4,852.34	-262.22	179.62	14,531,841.03	2,060,868.16	40° 0' 22.291 N	109° 29' 54.941 W	
4,965.00	0.34	56.57	4,942.34	-262.92	179.92	14,531,840.34	2,060,868.47	40° 0' 22.284 N	109° 29' 54.937 W	
5,056.00	0.74	48.32	5,033.34	-262.38	180.59	14,531,840.89	2,060,869.13	40° 0' 22.290 N	109° 29' 54.928 W	
5,146.00	0.66	90.01	5,123.33	-261.99	181.54	14,531,841.29	2,060,870.07	40° 0' 22.294 N	109° 29' 54.916 W	
5,237.00	0.54	108.41	5,214.32	-262.13	182.47	14,531,841.17	2,060,871.01	40° 0' 22.292 N	109° 29' 54.904 W	
5,327.00	0.49	119.44	5,304.32	-262.45	183.21	14,531,840.86	2,060,871.75	40° 0' 22.289 N	109° 29' 54.895 W	
5,418.00	0.70	151.93	5,395.32	-263.13	183.81	14,531,840.19	2,060,872.36	40° 0' 22.282 N	109° 29' 54.887 W	
5,508.00	0.81	149.17	5,485.31	-264.16	184.39	14,531,839.17	2,060,872.96	40° 0' 22.272 N	109° 29' 54.880 W	
5,598.00	0.79	161.91	5,575.30	-265.30	184.91	14,531,838.04	2,060,873.50	40° 0' 22.261 N	109° 29' 54.873 W	
5,689.00	0.90	167.58	5,666.29	-266.59	185.26	14,531,836.75	2,060,873.87	40° 0' 22.248 N	109° 29' 54.868 W	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25J2 Pad
Well: NBU 921-25J2CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25J2CS
TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSGN 139)
MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,779.00	1.19	189.39	5,756.27	-268.21	185.26	14,531,835.14	2,060,873.90	40° 0' 22.232 N	109° 29' 54.868 W	
5,870.00	0.17	277.30	5,847.27	-269.12	184.97	14,531,834.22	2,060,873.62	40° 0' 22.223 N	109° 29' 54.872 W	
5,961.00	0.87	3.44	5,938.26	-268.41	184.88	14,531,834.93	2,060,873.52	40° 0' 22.230 N	109° 29' 54.873 W	
6,051.00	0.35	345.29	6,028.26	-267.47	184.85	14,531,835.87	2,060,873.48	40° 0' 22.239 N	109° 29' 54.874 W	
6,142.00	0.50	292.58	6,119.26	-267.04	184.41	14,531,836.29	2,060,873.03	40° 0' 22.244 N	109° 29' 54.879 W	
6,232.00	0.36	261.90	6,209.25	-266.93	183.77	14,531,836.39	2,060,872.39	40° 0' 22.245 N	109° 29' 54.888 W	
6,322.00	0.42	234.43	6,299.25	-267.17	183.22	14,531,836.15	2,060,871.84	40° 0' 22.242 N	109° 29' 54.895 W	
6,413.00	0.68	209.59	6,390.25	-267.83	182.69	14,531,835.47	2,060,871.32	40° 0' 22.236 N	109° 29' 54.902 W	
6,503.00	0.64	206.15	6,480.24	-268.74	182.20	14,531,834.55	2,060,870.85	40° 0' 22.227 N	109° 29' 54.908 W	
6,594.00	1.28	193.15	6,571.23	-270.19	181.75	14,531,833.10	2,060,870.42	40° 0' 22.213 N	109° 29' 54.914 W	
6,685.00	0.12	59.87	6,662.22	-271.13	181.60	14,531,832.15	2,060,870.28	40° 0' 22.203 N	109° 29' 54.916 W	
6,775.00	0.24	133.57	6,752.22	-271.22	181.81	14,531,832.07	2,060,870.50	40° 0' 22.202 N	109° 29' 54.913 W	
6,866.00	0.34	122.72	6,843.22	-271.49	182.18	14,531,831.80	2,060,870.87	40° 0' 22.200 N	109° 29' 54.908 W	
6,956.00	0.59	167.25	6,933.22	-272.09	182.51	14,531,831.21	2,060,871.21	40° 0' 22.194 N	109° 29' 54.904 W	
7,047.00	0.70	159.03	7,024.21	-273.07	182.81	14,531,830.24	2,060,871.53	40° 0' 22.184 N	109° 29' 54.900 W	
7,137.00	0.99	164.97	7,114.20	-274.33	183.21	14,531,828.98	2,060,871.95	40° 0' 22.172 N	109° 29' 54.895 W	
7,228.00	0.41	233.61	7,205.20	-275.28	183.15	14,531,828.03	2,060,871.90	40° 0' 22.162 N	109° 29' 54.896 W	
7,318.00	0.81	272.38	7,295.19	-275.45	182.25	14,531,827.85	2,060,871.01	40° 0' 22.161 N	109° 29' 54.907 W	
7,409.00	0.93	236.15	7,386.18	-275.83	181.00	14,531,827.44	2,060,869.76	40° 0' 22.157 N	109° 29' 54.923 W	
7,499.00	1.23	340.22	7,476.17	-275.33	180.07	14,531,827.93	2,060,868.82	40° 0' 22.162 N	109° 29' 54.935 W	
7,590.00	0.73	324.32	7,567.16	-273.94	179.40	14,531,829.31	2,060,868.13	40° 0' 22.175 N	109° 29' 54.944 W	
7,680.00	0.75	337.10	7,657.15	-272.93	178.83	14,531,830.31	2,060,867.55	40° 0' 22.185 N	109° 29' 54.951 W	
7,771.00	0.27	306.26	7,748.15	-272.26	178.43	14,531,830.98	2,060,867.13	40° 0' 22.192 N	109° 29' 54.956 W	
7,862.00	0.31	57.76	7,839.15	-272.00	178.46	14,531,831.24	2,060,867.16	40° 0' 22.195 N	109° 29' 54.956 W	
7,952.00	0.31	72.75	7,929.14	-271.79	178.90	14,531,831.44	2,060,867.60	40° 0' 22.197 N	109° 29' 54.950 W	
8,043.00	0.50	136.82	8,020.14	-272.01	179.41	14,531,831.24	2,060,868.11	40° 0' 22.195 N	109° 29' 54.944 W	
8,133.00	1.01	153.46	8,110.13	-273.01	180.03	14,531,830.25	2,060,868.75	40° 0' 22.185 N	109° 29' 54.936 W	
8,224.00	0.84	168.99	8,201.12	-274.38	180.52	14,531,828.89	2,060,869.26	40° 0' 22.171 N	109° 29' 54.929 W	
8,314.00	0.55	235.56	8,291.12	-275.27	180.29	14,531,827.99	2,060,869.04	40° 0' 22.162 N	109° 29' 54.932 W	
8,405.00	0.20	88.92	8,382.12	-275.52	180.09	14,531,827.74	2,060,868.85	40° 0' 22.160 N	109° 29' 54.935 W	
8,495.00	0.34	195.64	8,472.12	-275.77	180.17	14,531,827.49	2,060,868.94	40° 0' 22.157 N	109° 29' 54.934 W	
8,586.00	0.55	103.33	8,563.11	-276.13	180.52	14,531,827.14	2,060,869.29	40° 0' 22.154 N	109° 29' 54.929 W	
8,676.00	0.85	120.53	8,653.11	-276.57	181.52	14,531,826.72	2,060,870.30	40° 0' 22.149 N	109° 29' 54.917 W	
8,767.00	1.04	131.51	8,744.10	-277.46	182.72	14,531,825.85	2,060,871.51	40° 0' 22.141 N	109° 29' 54.901 W	
8,857.00	1.18	140.01	8,834.08	-278.71	183.93	14,531,824.61	2,060,872.74	40° 0' 22.128 N	109° 29' 54.886 W	
8,948.00	1.67	125.94	8,925.05	-280.21	185.60	14,531,823.15	2,060,874.44	40° 0' 22.114 N	109° 29' 54.864 W	
9,038.00	1.99	131.52	9,015.00	-282.01	187.83	14,531,821.38	2,060,876.70	40° 0' 22.096 N	109° 29' 54.835 W	
9,129.00	2.11	136.93	9,105.95	-284.28	190.16	14,531,819.15	2,060,879.07	40° 0' 22.073 N	109° 29' 54.805 W	
9,219.00	2.69	145.32	9,195.87	-287.23	192.49	14,531,816.24	2,060,881.45	40° 0' 22.044 N	109° 29' 54.775 W	
9,310.00	2.75	152.48	9,286.76	-290.92	194.72	14,531,812.59	2,060,883.73	40° 0' 22.008 N	109° 29' 54.747 W	
9,400.00	2.63	158.03	9,376.67	-294.75	196.49	14,531,808.79	2,060,885.57	40° 0' 21.970 N	109° 29' 54.724 W	
9,491.00	2.41	168.44	9,467.58	-298.56	197.65	14,531,805.00	2,060,886.80	40° 0' 21.932 N	109° 29' 54.709 W	
9,577.00	2.79	184.45	9,553.49	-302.42	197.85	14,531,801.14	2,060,887.06	40° 0' 21.894 N	109° 29' 54.707 W	
LAST SDI MWD PRODUCTION SURVEY										
9,635.00	2.79	184.45	9,611.42	-305.24	197.63	14,531,798.32	2,060,886.89	40° 0' 21.866 N	109° 29' 54.709 W	
SDI PROJECTION TO BIT										

Company: Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference: Well NBU 921-25J2CS	
Project: Uintah County, UT UTM12	TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)	
Site: NBU 921-25J2 Pad	MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)	
Well: NBU 921-25J2CS	North Reference: True	
Wellbore: OH	Survey Calculation Method: Minimum Curvature	
Design: OH	Database: EDM5000-RobertS-Local	

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
202.00	202.00	0.61	-0.88	FIRST WEATHERFORD MWD SURFACE SURVEY
2,509.00	2,486.87	-241.12	156.86	LAST WEATHERFORD MWD SURFACE SURVEY

Checked By: _____	Approved By: _____	Date: _____
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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
UO 1194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-25J2CS

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
4304751276

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY **DENVER** STATE **CO** ZIP **80217** PHONE NUMBER: **(720) 929-6100**

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **NWSE 2601 FSL 2596 FEL S25, T9S, R21E** *BHL reviewed by HSM*
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NWSE 2325 FSL 2415 FEL S25, T9S, R21E**
AT TOTAL DEPTH: **NWSE 2296 FSL 2398 FEL S25, T9S, R21E**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NWSE 25 9S 21E S

12. COUNTY **UINTAH** 13. STATE **UTAH**

14. DATE SPUDDED: **12/7/2010** 15. DATE T.D. REACHED: **2/26/2011** 16. DATE COMPLETED: **5/2/2011** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
4930 GL

18. TOTAL DEPTH: MD **9,635** TVD **9,611** 19. PLUG BACK T.D.: MD **9,582** TVD **9,558** 20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
ACBL-CHI TRIPLE COMBO

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,587		460		0	
7 7/8"	4 1/2" I-80	11.6#		9,625		1,570		5608	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,794							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	7,417	9,425		
(B) WSMVD				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,417 9,425	0.36	166	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7417 - 9425	PUMP 7,284 BBLs SLICK H2O & 277,974 LBS SAND

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: **RECEIVED**

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/2/2011		TEST DATE: 5/5/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,400	WATER – BBL: 524	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,850	CSG. PRESS. 2,600	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,400	WATER – BBL: 524	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,394				
BIRD'S NEST	1,710				
MAHOGANY	2,119				
WASATCH	4,702	7,404			
MESAVERDE	7,404	9,635	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history and final survey. Completion chrono details individual frac stages.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLE

TITLE REGULATORY ANALYST

SIGNATURE 

DATE 6/2/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25J2CS YELLOW		Spud Conductor: 12/7/2010		Spud Date: 1/8/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD		Rig Name No: ENSIGN 139/139, CAPSTAR 310/310	
Event: DRILLING		Start Date: 12/7/2010		End Date: 2/28/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/8/2011	0:00 - 7:00	7.00	DRLSUR	21	C	P		WAIT ON DAYLIGHT TO SKID RIG INSTALL BIGGER MOTORS ON TOP DRIVE
	7:00 - 12:30	5.50	DRLSUR	01	B	P		CONDUCT SAFETY MEETING AND SKID RIG TO WELL # 3/4 NBU 921-25J2CS
	12:30 - 15:00	2.50	DRLSUR	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOW LINE FINISH RIG UP
	15:00 - 16:00	1.00	DRLSUR	06	A	P		PICK UP BIT AND MUD MOTOR PREPARE TO SPUD
	16:00 - 17:30	1.50	DRLSUR	02	C	P		SPUD WELL DRILL F/ 40' - 217' WOB 4-8 ROT 45-55 DHR 96 AVE ROP 118 FT HR
	17:30 - 19:30	2.00	DRLSUR	06	A	P		TOOH PICK UP DIRECTIONAL BHA INSTALL MWD TOOLS AND ORIENT TO MUD MOTOR TIH
	19:30 - 0:00	4.50	DRLSUR	02	C	P		DRILL F/ 217' - 761' AVE ROP 120 FT HR WOB 15-22 ROT 50-60 DHR 96 GPM 600 OBP 1180 OFBP 960 LAST SURVEY 7.56 DEG 145.67
1/9/2011	0:00 - 9:00	9.00	DRLSUR	02	C	P		DRILL F/ 761' - 1946' AVE ROP 131 FT HR WOB 20-22 ROT 55-60 DHR 96 OBP 1340 OFBP 1125 NO LOSSES LAST SURVEY 7.63 DEG 150.67 AZI
	9:00 - 10:30	1.50	DRLSUR	08	B	Z		CHANGE OUT CLUTCH #2 MUD PUMP
	10:30 - 11:00	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE
	11:00 - 21:00	10.00	DRLSUR	02	C	P		DRILL F/ 1946' - 2628' T.D. AVE ROP 68 FT HR WOB 20-22 ROT 55-60 DHR 96 OBP 1340 OFBP 1125 NO LOSSES LAST SURVEY 1.38 DEG 141.55 AZI
	21:00 - 21:30	0.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
	21:30 - 0:00	2.50	DRLSUR	06	A	P		TOOH LAYING DOWN, L/D DIRECTIONAL TOOLS MUD MOTOR, MWD TOOL, AND BIT
1/10/2011	0:00 - 1:30	1.50	DRLSUR	06	A	P		FINISH LDDS DIRECTIONAL TOOLS MUD MOTOR, MWD TOOL, AND BIT
	1:30 - 6:00	4.50	DRLSUR	12	E	P		CONDUCT SAFETY MEETING RIG UP AND RUN 58 JTS 8 5/8 SURFACE CASING SHOE AT 2582' FLOAT AT 2538'
	6:00 - 8:00	2.00	DRLSUR	12	E	P		HOLD SAFETY MEETING W/ SUPERIOR WELL SERVICES CEMENTERS. INSTALL CEMENT HEAD ON TOP OF LANDING JT. PRESSURE TEST LINE TO 2000 PSI. PUMP 50 BBLS OF WATER AHEAD, PUMP 20 BBLS OF GEL WATER. PUMP 200 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD, PUMP 225 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT. DROP PLUG ON FLY, DISPLACE W/ 144.5 BBLS OF WATER. 490 PSI OF LIFT @ 2 BBLS/MIN RATE. LOST CIRCULATION AFTER 130 BBLS OF DISPLACEMENT BUMP PLUG W/ 900 PSI. FLOAT HELD.
	8:00 - 8:30	0.50	DRLSUR	14	A	P		CUT CONDUCTOR AND HANG OFF SURFACE CASING AND RIG DOWN FLOW LINE
	8:30 - 9:30	1.00	DRLSUR	12	E	P		RUN 1" PIPE AND PUMP 35 SX 15.8# TAIL CEMENT, CEMENT TO SURFACE BUT FALLING WILL TOP OUT ON NEXT JOB RELEASE RIG 1-10-2011 @ 0930

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW Spud Conductor: 12/7/2010 Spud Date: 1/8/2011
 Project: UTAH-UINTAH Site: NBU 921-25J2 PAD Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
 Event: DRILLING Start Date: 12/7/2010 End Date: 2/28/2011
 Active Datum: RKB @4,944.00ft (above Mean Sea Level) UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:30 - 9:30	0.00	DRLSUR					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28 SPUD DATE/TIME: 1/8/2011 16:00 SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,628 Total SURFACE hours: 25.00 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,582.0 # sx of cement: 200/225/35 Cement blend (ppg): 11.0/15.8/15.8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: 0 Describe cement issues: LOST CIRCULATION AFTER 130 BBLs OF DISPLACEMENT Describe hole issues: NONE
2/20/2011	10:00 - 12:00	2.00	MIRU	01	C	P		SKID ON RIG,CHECK LEVEL
	12:00 - 14:00	2.00	MIRU	09	A	P		F/CSG,RURT,NUBOP,FLARE,FLOW LINES CUT & SLIP DRLG LINE 98'
	14:00 - 19:30	5.50	PRSPD	15	A	P		TEST BOP,ANNULAR 2500,RAMS.CHOKE,MANIFOLD,KILLLINE,FLOOR VALVES TO 5000,250 LOWS,CASING TO 1500 FOR 30 MIN,INSTALL 8" WEARRING
	19:30 - 0:00	4.50	PRSPD	06	A	P		P/U BHA -BIT & MTR #1,SCRIBE DIR TOOLS,REDOPE DIR CONNECTIONS,TIH TO 2480'
2/21/2011	0:00 - 1:00	1.00	DRLPRO	02	F	P		DRILL CEMENT & FE TO 2633'
	1:00 - 6:00	5.00	DRLPRO	02	D	P		SPUD 7.875 HOLE F/2633 TO 3277',AVG 128,WOB 18,RPM 40/112,GPM 490,STKS 100,PSI 950/1400,TORQ 4/6K,CIRC RES PIT
	6:00 - 8:00	2.00	DRLPRO	08	B	Z		TRIP TO SHOE, REPAIR 4" VALVE ON #1 PUMP,TIH
	8:00 - 12:00	4.00	DRLPRO	02	D	P		DIR DRILL F/3277' TO 3839=562,AVG 139,WOB 18,RPM 40/112,GPM 490,STKS 100,PSI 950/1400,TORQ 4/6K,CIRC RES PIT,SLIDE 3% RIG SERVICE
	12:00 - 12:30	0.50	DRLPRO	07	A	P		DIR DRILL F/3839 TO 5450 =1611 ,AVG 140 ,WOB 18,RPM 40/112,GPM 490,STKS 100,PSI 1000/1500,TORQ 4/8K,CIRC RES PIT,SLIDE 6%
	12:30 - 0:00	11.50	DRLPRO	02	D	P		DIR DRILL F/ 5450 TO 5740 =290 ,AVG 116 ,WOB 18,RPM 40/112,GPM 490,STKS 100,PSI 1300/1800,TORQ 5/9K,CIRC RES PIT,SLIDE 3% LOST RETURNS,PUMP 25% SWEEPS,MIX LCM & BUILD VOLUME 20%LCM PUMP TO REGAIN CIRC,TOTAL MUD LOST 400 BBLs,
2/22/2011	0:00 - 2:30	2.50	DRLPRO	02	D	P		DIR DRILL F/5740 TO 6194 =454,AVG 101 ,WOB 18,RPM 40/112,GPM 470,STKS 95,PSI 1500/2050,TORQ 5-9K,SLIDE 3%.,MW 9.8/35 8% LCM
	2:30 - 6:30	4.00	DRLPRO	22	G	X		RIG SERVICE
	6:30 - 11:00	4.50	DRLPRO	02	D	P		DIR DRILL F/6194 TO 7040 =846,AVG 68 ,WOB 18,RPM 40/112,GPM 470,STKS 95,PSI 1500/2050,TORQ 6-10K,SLIDE 2%.,MW 10.2/35 8% LCM
	11:00 - 11:30	0.50	DRLPRO	07	A	P		DIR DRILL F/7040 TO 7147' =107,AVG ,WOB 18,RPM 40/112,GPM 470,STKS 95,PSI 1500/2050,TORQ 6-10K,SLIDE 0%.,MW 10.5/38 10% LCM
	11:30 - 0:00	12.50	DRLPRO	02	D	P		
2/23/2011	0:00 - 2:00	2.00	DRLPRO	02	D	P		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
Event: DRILLING	Start Date: 12/7/2010	End Date: 2/28/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	2:00 - 14:00	12.00	DRLPRO	05	A	S		MIX LCM & BUILD VOLUME, LOST 600 BBLs, POOH TO 4530', TIGHT F/5108-4625 REGAIN CIRC, 10.7/40 20% LCM, STAGE IN 5470, 6558,
	14:00 - 0:00	10.00	DRLPRO	02	D	P		DIR DRILL F/7147 TO 7500' =353, AVG 29, WOB 18, RPM 40/112, GPM 470, STKS 95, PSI 1500/2050, TORQ 6-10K, SLIDE 0%, MW 10.8/38 20% LCM
2/24/2011	0:00 - 10:00	10.00	DRLPRO	02	D	P		DIR DRILL F/7500' TO 8096 =596, AVG 59, WOB 20, RPM 30/110, GPM 445, STKS 90, PSI 1700/2100, TORQ 6-10K, SLIDE 0%, MW 11.1/38 20% LCM
	10:00 - 10:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	10:30 - 0:00	13.50	DRLPRO	02	D	P		DIR DRILL F/8096 TO 8735=639, AVG 47, WOB 20, RPM 30/110, GPM 445, STKS 90, PSI 1700/2100, TORQ 6-10K, SLIDE 1%, MW 11.5/42 20% LCM
2/25/2011	0:00 - 6:30	6.50	DRLPRO	02	D	P		DIR DRILL F/8735 TO 8883=146, AVG 24, WOB 22, RPM 30/110, GPM 445, STKS 90, PSI 2000/2300, TORQ 6-12K, SLIDE %, MW 11.6/42 20% LCM
	6:30 - 14:00	7.50	DRLPRO	06	A	P		FLOW CHECK, SURVEY, PUMP OUT 4 STNDS, POOH F/BIT, TIGHT SPOT 5080, 4320 CHANGE, L/D BIT & MTR
	14:00 - 14:30	0.50	DRLPRO	07	B	P		CHECK RIG F/LEVEL, RIG IS OK, NO ADJUSTMENT NEEDED
	14:30 - 23:00	8.50	DRLPRO	06	A	P		P/U /BIT #2,, SCRIBE, FILL PIPE, 2760, 5118, 7105, WASH 60' TO BTM, 10' FILL
	23:00 - 0:00	1.00	DRLPRO	02	D	P		DIR DRILL F/8883 TO 8930, AVG 47, WOB 18-20, RPM 30/72, GPM 445, STKS 90, PSI 2000/2300, TORQ 6-12K, SLIDE %, MW 11.7/42 20% LCM
2/26/2011	0:00 - 14:30	14.50	DRLPRO	02	D	P		DIR DRILL F/8930 TO TD 9635'=705, AVG 48, WOB 20, RPM 30/72, GPM 445, STKS 90, PSI 2000/2300, TORQ 6-12K, SLIDE %, MW 11.7/42 20% LCM
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:00 - 16:00	1.00	DRLPRO	05	B	P		CHECK FLOW, FINAL SURVEY@9577=2.79 DEG 184.45 AZI, RAISE MUD WT 12.1+/40, 25% LCM
	16:00 - 18:00	2.00	DRLPRO	06	E	P		SHORTTRIP 10 STNDS TO 8735, LOST 80 BBLs ON SHORTTRIP
	18:00 - 20:30	2.50	DRLPRO	05	C	P		CIRC BTMS UP TWICE, F/CASING RUN, 5' FLARE 30 MIN
	20:30 - 0:00	3.50	DRLPRO	06	A	P		FLOW CHECK OK, PUMP OUT 4 STNDS, PUMPPILL, POOH F/ CASING RUN
2/27/2011	0:00 - 6:00	6.00	DRLPRO	06	A	P		POOH F/CSG RUN
	6:00 - 6:30	0.50	CSG	14	B	P		PULL WEAR BUSHING, NO VISUAL WEAR, GOOD SHAPE, 8"ID
	6:30 - 15:00	8.50	CSG	12	C	P		SAFETY MEET RUN 4.5 11.6# I-80 BTC TO 7443, AVG TORQ ON CSG @5100, FILL@845, 2967', CIRC BTMS UP@, 6006', RUN TO 7443' TOOK 60 BBL KICK SHUT WELL IN
	15:00 - 0:00	9.00	CSG	12	C	S		CIRC THRU CHOKE, CSG 500 PSI, 40 STKS NO PSI, 12.2/40 20% LCM, KILL WELL@ 12.4/39 22%, LOST 200 BBLs, PIPE STUCK WORK PIPE 200K -40K NO JOY, PULL 260 STRING WT, PUMP 200 BBLs WATER, DISPLACE WATER 3050 STKS=6123-1620' ANNULAR COVERAGE, TOOK ANOTHER 40 BBL KICK, SHUT IN WELL

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
Event: DRILLING	Start Date: 12/7/2010	End Date: 2/28/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)	UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/28/2011	0:00 - 7:30	7.50	CSG	05	I	S		WORK STUCK CSG @ 7443',CIRC THRU CHOKE,BUILD & MIX MUD,SPOT 200 BBLS WATER,DIPLACE TO TOP,WORK CSG FREE
	7:30 - 9:00	1.50	CSG	12	C	P		FINISH CSG RUN 228 JTS 4.5 I-80 11.6# BTC TO SHOE DEPTH 9625,FC 9583,MARKERS @7431-4724',AVERAGE TORQ 5000#,,R/D FRANKS,INSTALL CEMENT HEAD
	9:00 - 11:00	2.00	CSG	05	D	P		CIRC BTMS UP THRU CHOKE,50' FLARE !!
	11:00 - 13:30	2.50	CSG	12	E	P		SAFETY MEET,R/U HALLIBURTON,PUMP 30 BBLS FRESH AHEAD,520 SX LEAD @12.4# 2.03 YLD,1050SX TAIL@14.3# 1.26 YLD,DISPLACE PLUG 149 BBLS CLAYFIX,FINAL LIFT 2680 PSI,BUMPPLUG 500 OVER,FLOATS HELD,1.5 BBL TO TRUCK,NO RETURNS DURING DISPLACEMENT.
	13:30 - 15:00	1.50	RDMO	14	A	P		FLUSH BOP,STRING WT 140K,SET CSG SLIPS W/105K TENSION,NDBOP,MAKE RUFFCUT ON CSG
	15:00 - 18:00	3.00	RDMO	01	E	P		CLEAN PITS,BLOW DOWN,CHOKE,PUMPS,HARDLINES,PREP F/SKID,RELEASE RIG @ 18:00 2/28/2011 TO THE NBU 921-25K1CS,GO TO NEXT WELL

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
Event: DRILLING	Start Date: 12/7/2010	End Date: 2/28/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 18:00	0.00	RDMO					<p>CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28</p> <p>SPUD DATE/TIME: 1/5/2011 21:30</p> <p>SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,633 Total SURFACE hours: 25.00 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,582.0 # sx of cement: 490 Cement blend (ppg): 15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: 0 Describe cement issues: NA Describe hole issues: NA</p> <p>PRODUCTION: Rig Move/Skid start date/time: 2/20/2011 10:00 Rig Move/Skid finish date/time: 2/20/2011 12:00 Total MOVE hours: 2.0 Prod Rig Spud date/time: 2/21/2011 0:00 Rig Release date/time: 2/28/2011 18:00 Total SPUD to RR hours: 186.0 Planned depth MD 9,616 Planned depth TVD 9,594 Actual MD: 9,635 Actual TVD: 9,611 Open Wells \$: \$867,586 AFE \$: \$774,712 Open wells \$/ft: \$90.05</p> <p>PRODUCTION HOLE: Prod. From depth: 2,633 Prod. To depth: 9,635 Total PROD hours: 97.5 Log Depth: NO LOGS/NO SONIC Float Collar Top Depth: 9583 Production Casing size: 4.5 BTC # of casing joints ran: 230 Casing set MD: 9,625.0 Stage 1 # sx of cement: 520LEAD 1050TAIL Cement density (ppg): 12.4/14.3 Cement yield (ft3/sk): 2.03/1.26 Stage 2 # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Top Out Cmt # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : Describe cement issues: Describe hole issues: 20% LCM MW 12.2,1800 LOST,STUCK CSG 7443',ON CHOKE W/BIG FLARE</p> <p>DIRECTIONAL INFO: KOP: 202 Max angle: 11.44@1148</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW		Spud Conductor: 12/7/2010		Spud Date: 1/8/2011				
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD		Rig Name No: ENSIGN 139/139, CAPSTAR 310/310			
Event: DRILLING		Start Date: 12/7/2010		End Date: 2/28/2011				
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								Departure: 363@9611
								Max dogleg MD: 1.90@7499

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ROYAL WELL SERVICE 1/1
Event: COMPLETION	Start Date: 4/15/2011	End Date: 5/2/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)	UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/15/2011	11:00 - 13:00	2.00	COMP	33	C	P		PSI TEST FRAC VAVLES & CSG T/ 1000 PSI HOLD FOR 15 MIN. 0 PSI LOST. PSI T/ 3500 PSI FOR 15 MIN, 0 LOST. PSI TEST T/ 7000 PSI, LOST 65 PSI. 2ND ATTM PSI T/ 7000 PSI, LOST 30 PSI. GOOD TEST. BLEED OFF PSI. MOVE TO NEXT WELL. PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90, 120 & 180 DEG PHASING. RIH PERF F/ 9424'-25', 3 SPF, 3 HOLES. 9400'-01', 3 SPF, 3 HOLES. 9333'-34', 3 SPF, 3 HOLES. 9260'-61', 4 SPF, 4 HOLES. 9184'-85', 3 SPF, 3 HOLES. 9156'-57', 3 SPF, 3 HOLES. 9138'-39', 3 SPF, 3 HOLES. 9106'-07', 2 SPF, 2 HOLES. 24 TOTAL HOLES. POOH, SWI.
	13:00 - 14:00	1.00	COMP	37				

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25J2CS YELLOW Spud Conductor: 12/7/2010 Spud Date: 1/8/2011
 Project: UTAH-UINTAH Site: NBU 921-25J2 PAD Rig Name No: ROYAL WELL SERVICE 1/1
 Event: COMPLETION Start Date: 4/15/2011 End Date: 5/2/2011
 Active Datum: RKB @4,944.00ft (above Mean Sea Level) UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/18/2011	8:30 - 18:00	9.50	COMP	36	B	P		<p>FRAC STG 1)WHP 1500 PSI, BRK 3510 PSI @ 2.9 BPM. ISIP 3177 PSI, FG .78. PUMP 100 BBLS @ 51.9 BPM @ 5875 PSI = 100% HOLES OPEN. ISIP 2866 PSI, FG .75, NPI -311 PSI. MP 6372 PSI, MR 52.1 BPM, AP 5788 PSI, AR 50.3 BPM, PMP 957 BBLS SW & 24,237 LBS OF 30/50 SND & 5263 LBS OF 20/40 SLC SND. TOTAL PROP 29,500 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90, 120 & 180 DEG PHASING DEG PHASING. RIH SET CBP @ 9083' P/U PERF F/ 9052'-53', 3 SPF, 3 HOLES. 9030'-31', 3 SPF, 3 HOLES. 9006'-07', 3 SPF, 3 HOLES. 8986'-87', 4 SPF, 4 HOLES. 8954'-55', 2 SPF, 2 HOLES. 8889'-90', 3 SPF, 3 HOLES. 8861'-62', 2 SPF, 2 HOLES. 8811'-12', 4 SPF, 4 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 1477 PSI, BRK 2758 PSI @ 2.9 BPM. ISIP 2124 PSI, FG .68. PUMP 100 BBLS @ 27.9 BPM @ 5910 PSI = 70% HOLES OPEN. ISIP 2626 PSI, FG .73, NPI 502 PSI. MP 6651 PSI, MR 52.3 BPM, AP 5603 PSI, AR 50.5 BPM, PMP 1292 BBLS SW & 47,128 LBS OF 30/50 SND & 4627 LBS OF 20/40 SLC SND. TOTAL PROP 51,755 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8794' P/U PERF F/ 8762'-64', 4 SPF, 8 HOLES. 8702'-03', 4 SPF, 4 HOLES. 8570'-71', 4 SPF, 4 HOLES. 8536'-37', 4 SPF, 4 HOLES. 8502'-03', 4 SPF, 4 HOLES. 24 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3)WHP 2240 PSI, BRK 3241 PSI @ 4.7 BPM. ISIP 2753 PSI, FG .76. SHUT DOWN AFTER PUMPING 47 BBLS OF PAD T/ REPLACE VALVE ON BLEED OFF LINE. PUMP 100 BBLS @ 44.7 BPM @ 6101 PSI = 70% HOLES OPEN. ISIP 2482 PSI, FG .73, NPI -271 PSI. MP 6300 PSI, MR 51.5 BPM, AP 5593 PSI, AR 49.8 BPM, PMP 970 BBLS SW & 31,339 LBS OF 30/50 SND & 5120 LBS OF 20/40 SLC SND. TOTAL PROP 36,459 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8458' P/U PERF F/ 8426'-28', 4 SPF, 8 HOLES. 8382'-84', 3 SPF, 6 HOLES. 8364'-65', 4 SPF, 4 HOLES.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ROYAL WELL SERVICE 1/1
Event: COMPLETION	Start Date: 4/15/2011	End Date: 5/2/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								8255'-56', 4 SPF, 4 HOLES. 22 HOLES. POOH, SWIFN.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW Spud Conductor: 12/7/2010 Spud Date: 1/8/2011
 Project: UTAH-UINTAH Site: NBU 921-25J2 PAD Rig Name No: ROYAL WELL SERVICE 1/1
 Event: COMPLETION Start Date: 4/15/2011 End Date: 5/2/2011
 Active Datum: RKB @4,944.00ft (above Mean Sea Level) UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/19/2011	7:30 - 18:00	10.50	COMP	36	B	P		<p>FRAC STG 4)WHP 2066 PSI, BRK 4201 PSI @ 4.9 BPM. ISIP 3205 PSI, FG .82. PUMP 100 BBLS @ 44 BPM @ 5608 PSI = 100% HOLES OPEN. ISIP 2494 PSI, FG .74, NPI -711 PSI. MP 6274 PSI, MR 50.9 BPM, AP 5645 PSI, AR 49.1 BPM, PMP 622 BBLS SW & 16,419 LBS OF 30/50 SND & 5082 LBS OF 20/40 SLC SND. TOTAL PROP 21,501 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8152' P/U PERF F/ 8101'-02', 4 SPF, 4 HOLES. 8076'-77', 3 SPF, 3 HOLES. 8003'-04', 3 SPF, 3 HOLES. 7982'-83', 3 SPF, 3 HOLES. 7870'-71', 4 SPF, 4 HOLES. 7829'-30', 3 SPF, 3 HOLES. 7810'-11', 4 SPF, 4 HOLES. 24 TOTAL HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 5)WHP 1509 PSI, BRK 5993 PSI @ 4.6 BPM. ISIP 3540 PSI, FG .88. PUMP 100 BBLS @ 46.2 BPM @ 6254 PSI = 86% HOLES OPEN. ISIP 2331 PSI, FG .73, NPI -1209 PSI. MP 6715 PSI, MR 53.8 BPM, AP 5996 PSI, AR 50 BPM, PMP 928 BBLS SW & 30,693 LBS OF 30/50 SND & 5119 LBS OF 20/40 SLC SND. TOTAL PROP 35,812 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7760' P/U PERF F/ 7728'-30', 4 SPF, 8 HOLES. 7645'-46', 4 SPF, 4 HOLES. 7620'-21', 4 SPF, 4 HOLES. 7596'-97', 4 SPF, 4 HOLES. 7578'-79', 4 SPF, 4 HOLES. 24 HOLES.</p> <p>FRAC STG 6)WHP 1899 PSI, BRK 2253 PSI @ 4.5 BPM. ISIP 1927 PSI, FG .69. PUMP 100 BBLS @ 50.5 BPM @ 5640 PSI = 75% HOLES OPEN. ISIP 2094 PSI, FG .71, NPI 167 PSI. MP 5812 PSI, MR 53.5 BPM, AP 4666 PSI, AR 51.9 BPM, PMP 1155 BBLS SW & 41,105 LBS OF 30/50 SND & 4686 LBS OF 20/40 SLC SND. TOTAL PROP 45,791 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7526' P/U PERF F/ 7495'-96', 4 SPF, 4 HOLES. 7483'-84', 4 SPF, 4 HOLES. 7470'-71', 4 SPF, 4 HOLES. 7451'-53', 4 SPF, 8 HOLES. 7417'-18', 4 SPF, 4 HOLES. 24 TOTAL HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 457 PSI, BRK 2135 PSI @ 3.9</p>

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25J2CS YELLOW	Spud Conductor: 12/7/2010	Spud Date: 1/8/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ROYAL WELL SERVICE 1/1
Event: COMPLETION	Start Date: 4/15/2011	End Date: 5/2/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/29/2011	7:00 - 16:00	9.00	COMP	30	A	P		<p>BPM. ISIP 1496 PSI, FG .64. PUMP 100 BBLS @ 50.7 BPM @ 4457 PSI = 89% HOLES OPEN. ISIP 2234 PSI, FG .74, NPI 738 PSI. MP 5448 PSI, MR 54.2 BPM, AP 4573 PSI, AR 52.3 BPM, PMP 1360 BBLS SW & 51,757 LBS OF 30/50 SND & 5399 LBS OF 20/40 SLC SND. TOTAL PROP 57,156 LBS. SWI, X-OVER FOR WL.</p> <p>PU 4 1/2 8K HAL CBP. RIH SET @ 7367'. POOH. SWI. DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 277,974 LBS TOTAL CLFL = 7284 BBLS TOTAL SCALE = 739 GAL TOTAL BIO = 156 GAL 7AM [DAY4] JSA--P/U TBG, DRLG PLUGS, WIND, TRIPS, SLIPS, FALLS.</p> <p>MIRU YESTERDAY. P/U 3-7/8" BIT, POBS W/ XN NIPPLE, NEW 2-3/8" L-80 TBG & RIH. [SLM & DRIFTED] TAG SAND @ 7342'. R/U SWVL & RIG PUMP. ESTABLISH CIRCULATION. P.T. SURFACE LINES & BOP TO 3000#. LOSS 0# IN 15 MINUTES. C/O 25' SAND TO CBP#1. FCP=50#.</p> <p>[DRLG CBP#1] @ 7367'. D/O HALL 8K CBP IN 5 MIN. 400# INC. RIH & C/O 20' SAND TO CBP#2. FCP=460#.</p> <p>[DRLG CBP#2] @ 7526'. D/O HALL 8K CBP IN 6 MIN. 100# INC. RIH & C/O 30' SAND TO CBP#3. FCP=300#.</p> <p>[DRLG CBP#3] @ 7760'. D/O HALL 8K CBP IN 6 MIN. 60# INC. RIH & C/O 160' SAND TO CBP#4. FCP=200#.</p> <p>[DRLG CBP#4] @ 8140'. D/O HALL 8K CBP IN 5 MIN. 20# INC. RIH & C/O 40' SAND TO CBP#5. CIRCULATE WELL CLEAN. PUH W/ EOT @ 8427'. FCP=250#.</p> <p>4 PM SWI-SDF-WE. PREP TO D/O 3 MORE PLUGS & LAND TBG ON MONDAY 5/2/11</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25J2CS YELLOW Spud Conductor: 12/7/2010 Spud Date: 1/8/2011
 Project: UTAH-UINTAH Site: NBU 921-25J2 PAD Rig Name No: ROYAL WELL SERVICE 1/1
 Event: COMPLETION Start Date: 4/15/2011 End Date: 5/2/2011
 Active Datum: RKB @4,944.00ft (above Mean Sea Level) UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0

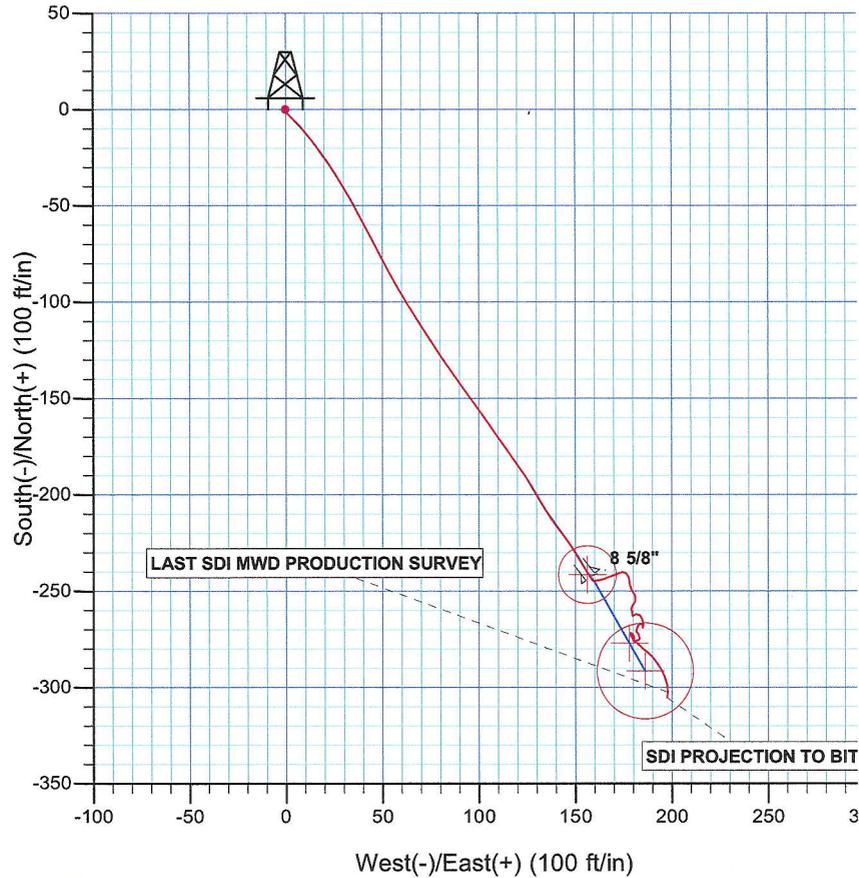
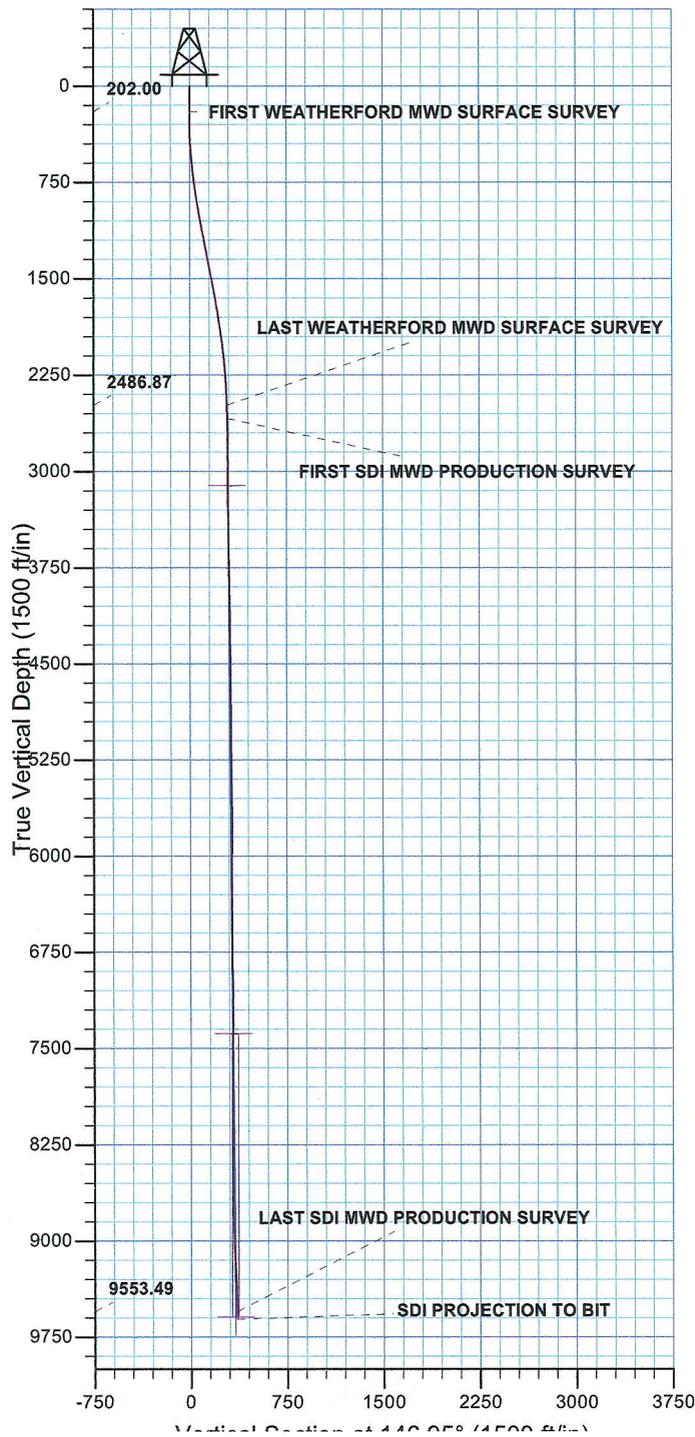
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/2/2011	7:00 - 17:00	10.00	COMP	30		P		<p>7AM [DAY 5] JSA-- BLEEDING OFF PSI, DRLG PUGS, LANDING TBG, R/D RIG, R/U RIG.NDWH, NUBOP.</p> <p>WE-SITP=0#, WE-SICP=3600#. EOT @ 8427'. OPEN WELL TO PIT. BLEW DOWN TO 1000# IN 45 MIN. ESTABLISH CIRCULATION. CONTINUE D/O PLUGS. FCP=540#</p> <p>[DRLG CBP#5] @ 8458'. D/O HALL 8K CBP IN 7 MIN. 60# INC. RIH & C/O 40' SAND TO CBP#6. FCP=600#.</p> <p>[DRLG CBP#6] @ 8794'. D/O HALL 8K CBP IN 5 MIN. 200# INC. RIH & C/O 30' SAND TO CBP#7. FCP=800#.</p> <p>[DRLG CBP#7] @ 9083'. D/O HALL 8K CBP IN 4 MIN. 40# INC. RIH & TAG SAND @ 9425'. C/O 155' SAND TO PBTD @ 9580'. CIRCULATE WELL CLEAN. R/D SWVL. FCP=750#. POOH & L/D 25 JTS ON FLOAT. LAND TBG ON HANGER W/ 277 JTS NEW 2-3/8" L-80 TBG. EOT @ 8794.07', POBS W/ XN @ 8791.87'. R/D FLOOR & TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DN TBG & PMP OFF THE BIT @ 2200#. OPEN WELL TO FBT ON OPEN CHOKE. FTP=2000#, SICP=2100#.</p> <p>12 PM TURN WELL OVER TO DELSCO FBC & APC MAINT CREW. SELLIND GAS @ 2.6 MCF DAILY RATE. RIG PMPD 275 BBLS. LTR= 5485 BBLS. RACK EQUIP. R/D RIG. MOVE OVER & R/U ON NBU 921-25K1CS. GREEN WELL. NDWH, NUBOP. R/U FLOOR & TBG EQUIP. P/U 3-7/8" MILL, POBS W/ XN NIPPLE, NEW 2-3/8" L-80 TBG & RIH. EOT @ 2480'.</p> <p>5PM SDFN</p> <p>315 JTS DELIV 277 JTS LANDED 37 JTS RETURNED 1 JUNK</p>
	17:00 - 17:00	0.00	PROD	50				WELL TURNED TO SALES @ 1230 HR ON 5/2/11 - 2600 MCFD, 1920 BWPD, CP 2200#, FTP 50#, CK 20/64"
5/5/2011	7:00 -			50				WELL IP'D ON 5/5/11 - 2400 MCFD, 0 BOPD, 524 BWPD, CP 2600#, FTP 1850#, CK 20/64", LP 121#, 24 HRS

WELL DETAILS: NBU 921-25J2CS					
GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14532100.18	2060684.15	40° 0' 24.883 N	109° 29' 57.250 W



Azimuths to True North
Magnetic North: 11.12°

Magnetic Field
 Strength: 52367.0snT
 Dip Angle: 65.88°
 Date: 02/11/2011
 Model: IGRF2010



PROJECT DETAILS: Uintah County, UT UTM12	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 - Western US
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SEC 25 T9S R21E
System Datum:	Mean Sea Level



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-25J2 Pad
NBU 921-25J2CS**

OH

Design: OH

Standard Survey Report

01 March, 2011

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference: Well NBU 921-25J2CS
Project: Uintah County, UT UTM12	TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
Site: NBU 921-25J2 Pad	MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
Well: NBU 921-25J2CS	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-25J2 Pad, SEC 25 T9S R21E				
Site Position:		Northing:	14,532,105.07 usft	Latitude:	40° 0' 24.930 N
From:	Lat/Long	Easting:	2,060,692.75 usft	Longitude:	109° 29' 57.138 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.97 °

Well	NBU 921-25J2CS, 2601' FSL 2596' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,532,100.19 usft	Latitude:	40° 0' 24.883 N
	+E/-W	0.00 ft	Easting:	2,060,684.15 usft	Longitude:	109° 29' 57.250 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,930.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/11/2011	11.12	65.88	52,367

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	146.95	

Survey Program	Date	03/01/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
5.00	2,509.00	Survey #1 WEATHERFORD MWD SURVE	MWD	MWD - Standard	
2,611.00	9,635.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00
202.00	0.62	304.70	202.00	0.61	-0.88	-0.99	0.31	0.31	0.00
FIRST WEATHERFORD MWD SURFACE SURVEY									
294.00	0.84	140.48	293.99	0.37	-0.86	-0.78	1.57	0.24	-178.50
388.00	2.69	141.76	387.94	-1.89	0.95	2.10	1.97	1.97	1.36
483.00	3.81	132.05	482.79	-5.76	4.67	7.37	1.31	1.18	-10.22
578.00	5.00	139.92	577.51	-11.04	9.68	14.53	1.40	1.25	8.28
674.00	6.50	144.17	673.02	-18.65	15.56	24.11	1.62	1.56	4.43
769.00	7.56	145.67	767.31	-28.17	22.23	35.73	1.13	1.12	1.58

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25J2 Pad
Well: NBU 921-25J2CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25J2CS
TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
864.00	8.75	149.05	861.35	-39.53	29.47	49.20	1.35	1.25	3.56	
959.00	10.13	152.30	955.06	-53.12	37.07	64.74	1.56	1.45	3.42	
1,053.00	10.88	152.17	1,047.48	-68.29	45.05	81.81	0.80	0.80	-0.14	
1,148.00	11.44	151.92	1,140.69	-84.53	53.67	100.12	0.59	0.59	-0.26	
1,243.00	10.31	148.05	1,233.98	-100.05	62.61	118.01	1.42	-1.19	-4.07	
1,339.00	10.00	148.55	1,328.48	-114.45	71.50	134.93	0.34	-0.32	0.52	
1,434.00	10.55	145.55	1,421.95	-128.66	80.73	151.87	0.81	0.58	-3.16	
1,528.00	11.20	143.71	1,514.26	-143.12	91.00	169.59	0.78	0.69	-1.96	
1,622.00	11.44	145.05	1,606.44	-158.12	101.74	188.02	0.38	0.26	1.43	
1,718.00	10.00	144.80	1,700.76	-172.73	112.00	205.86	1.50	-1.50	-0.26	
1,813.00	8.25	144.67	1,794.55	-185.03	120.70	220.92	1.84	-1.84	-0.14	
1,907.00	7.63	150.67	1,887.65	-195.98	127.65	233.88	1.10	-0.66	6.38	
2,003.00	7.50	147.55	1,982.82	-206.82	134.14	246.51	0.45	-0.14	-3.25	
2,098.00	7.00	143.67	2,077.06	-216.71	140.89	258.49	0.74	-0.53	-4.08	
2,193.00	5.44	145.67	2,171.50	-225.10	146.86	268.77	1.66	-1.64	2.11	
2,288.00	4.13	149.30	2,266.16	-231.76	151.15	276.69	1.41	-1.38	3.82	
2,382.00	3.19	149.17	2,359.97	-236.91	154.22	282.69	1.00	-1.00	-0.14	
2,477.00	1.75	147.30	2,454.88	-240.41	156.36	286.78	1.52	-1.52	-1.97	
2,509.00	1.38	141.55	2,486.87	-241.12	156.86	287.65	1.25	-1.16	-17.97	
LAST WEATHERFORD MWD SURFACE SURVEY										
2,611.00	0.75	159.11	2,588.85	-242.70	157.86	289.53	0.69	-0.62	17.22	
FIRST SDI MWD PRODUCTION SURVEY										
2,702.00	1.11	147.17	2,679.84	-244.00	158.55	290.99	0.45	0.40	-13.12	
2,792.00	1.94	87.60	2,769.81	-244.67	160.55	292.64	1.86	0.92	-66.19	
2,883.00	2.62	70.15	2,860.74	-243.90	164.04	293.90	1.06	0.75	-19.18	
2,973.00	2.22	69.39	2,950.66	-242.59	167.61	294.74	0.45	-0.44	-0.84	
3,064.00	1.73	67.09	3,041.60	-241.43	170.52	295.36	0.55	-0.54	-2.53	
3,154.00	1.44	72.32	3,131.57	-240.56	172.85	295.90	0.36	-0.32	5.81	
3,245.00	0.85	85.28	3,222.55	-240.16	174.61	296.53	0.70	-0.65	14.24	
3,336.00	0.78	109.37	3,313.54	-240.31	175.87	297.34	0.38	-0.08	26.47	
3,426.00	0.81	146.99	3,403.53	-241.04	176.80	298.46	0.57	0.03	41.80	
3,517.00	0.91	157.59	3,494.52	-242.25	177.42	299.81	0.21	0.11	11.65	
3,607.00	1.01	168.63	3,584.51	-243.69	177.85	301.25	0.23	0.11	12.27	
3,697.00	1.24	177.01	3,674.49	-245.44	178.06	302.83	0.31	0.26	9.31	
3,788.00	0.44	151.55	3,765.48	-246.73	178.28	304.03	0.95	-0.88	-27.98	
3,879.00	0.71	149.46	3,856.48	-247.52	178.73	304.94	0.30	0.30	-2.30	
3,969.00	1.20	169.04	3,946.47	-248.93	179.19	306.37	0.65	0.54	21.76	
4,060.00	0.87	130.41	4,037.45	-250.31	179.90	307.92	0.83	-0.36	-42.45	
4,150.00	0.85	161.00	4,127.44	-251.39	180.64	309.22	0.50	-0.02	33.99	
4,241.00	1.01	163.12	4,218.43	-252.79	181.09	310.65	0.18	0.18	2.33	
4,331.00	0.63	196.67	4,308.42	-254.02	181.18	311.73	0.66	-0.42	37.28	
4,422.00	1.06	178.70	4,399.41	-255.34	181.05	312.77	0.55	0.47	-19.75	
4,512.00	1.14	226.84	4,489.40	-256.79	180.42	313.63	1.00	0.09	53.49	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25J2 Pad
Well: NBU 921-25J2CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25J2CS
TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,603.00	1.34	205.67	4,580.38	-258.37	179.30	314.34	0.55	0.22	-23.26
4,694.00	0.54	142.65	4,671.36	-259.67	179.10	315.33	1.31	-0.88	-69.25
4,784.00	0.87	172.25	4,761.36	-260.68	179.45	316.37	0.53	0.37	32.89
4,875.00	1.08	174.52	4,852.34	-262.22	179.62	317.75	0.23	0.23	2.49
4,965.00	0.34	56.57	4,942.34	-262.92	179.92	318.50	1.42	-0.82	-131.06
5,056.00	0.74	48.32	5,033.34	-262.38	180.59	318.41	0.45	0.44	-9.07
5,146.00	0.66	90.01	5,123.33	-261.99	181.54	318.61	0.56	-0.09	46.32
5,237.00	0.54	108.41	5,214.32	-262.13	182.47	319.23	0.25	-0.13	20.22
5,327.00	0.49	119.44	5,304.32	-262.45	183.21	319.90	0.12	-0.06	12.26
5,418.00	0.70	151.93	5,395.32	-263.13	183.81	320.80	0.43	0.23	35.70
5,508.00	0.81	149.17	5,485.31	-264.16	184.39	321.98	0.13	0.12	-3.07
5,598.00	0.79	161.91	5,575.30	-265.30	184.91	323.22	0.20	-0.02	14.16
5,689.00	0.90	167.58	5,666.29	-266.59	185.26	324.49	0.15	0.12	6.23
5,779.00	1.19	189.39	5,756.27	-268.21	185.26	325.84	0.54	0.32	24.23
5,870.00	0.17	277.30	5,847.27	-269.12	184.97	326.45	1.31	-1.12	96.60
5,961.00	0.87	3.44	5,938.26	-268.41	184.88	325.81	0.96	0.77	94.66
6,051.00	0.35	345.29	6,028.26	-267.47	184.85	325.00	0.61	-0.58	-20.17
6,142.00	0.50	292.58	6,119.26	-267.04	184.41	324.41	0.44	0.16	-57.92
6,232.00	0.36	261.90	6,209.25	-266.93	183.77	323.97	0.29	-0.16	-34.09
6,322.00	0.42	234.43	6,299.25	-267.17	183.22	323.86	0.22	0.07	-30.52
6,413.00	0.68	209.59	6,390.25	-267.83	182.69	324.12	0.38	0.29	-27.30
6,503.00	0.64	206.15	6,480.24	-268.74	182.20	324.63	0.06	-0.04	-3.82
6,594.00	1.28	193.15	6,571.23	-270.19	181.75	325.59	0.74	0.70	-14.29
6,685.00	0.12	59.87	6,662.22	-271.13	181.60	326.30	1.50	-1.27	-146.46
6,775.00	0.24	133.57	6,752.22	-271.22	181.81	326.49	0.26	0.13	81.89
6,866.00	0.34	122.72	6,843.22	-271.49	182.18	326.92	0.12	0.11	-11.92
6,956.00	0.59	167.25	6,933.22	-272.09	182.51	327.60	0.47	0.28	49.48
7,047.00	0.70	159.03	7,024.21	-273.07	182.81	328.58	0.16	0.12	-9.03
7,137.00	0.99	164.97	7,114.20	-274.33	183.21	329.86	0.34	0.32	6.60
7,228.00	0.41	233.61	7,205.20	-275.28	183.15	330.62	1.01	-0.64	75.43
7,318.00	0.81	272.38	7,295.19	-275.45	182.25	330.27	0.61	0.44	43.08
7,409.00	0.93	236.15	7,386.18	-275.83	181.00	329.91	0.61	0.13	-39.81
7,499.00	1.23	340.22	7,476.17	-275.33	180.07	328.98	1.90	0.33	115.63
7,590.00	0.73	324.32	7,567.16	-273.94	179.40	327.45	0.62	-0.55	-17.47
7,680.00	0.75	337.10	7,657.15	-272.93	178.83	326.30	0.18	0.02	14.20
7,771.00	0.27	306.26	7,748.15	-272.26	178.43	325.51	0.59	-0.53	-33.89
7,862.00	0.31	57.76	7,839.15	-272.00	178.46	325.32	0.53	0.04	122.53
7,952.00	0.31	72.75	7,929.14	-271.79	178.90	325.38	0.09	0.00	16.66
8,043.00	0.50	136.82	8,020.14	-272.01	179.41	325.84	0.50	0.21	70.41
8,133.00	1.01	153.46	8,110.13	-273.01	180.03	327.02	0.61	0.57	18.49
8,224.00	0.84	168.99	8,201.12	-274.38	180.52	328.43	0.33	-0.19	17.07
8,314.00	0.55	235.56	8,291.12	-275.27	180.29	329.05	0.89	-0.32	73.97
8,405.00	0.20	88.92	8,382.12	-275.52	180.09	329.15	0.80	-0.38	-161.14
8,495.00	0.34	195.64	8,472.12	-275.77	180.17	329.41	0.49	0.16	118.58

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25J2 Pad
Well: NBU 921-25J2CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25J2CS
TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,586.00	0.55	103.33	8,563.11	-276.13	180.52	329.90	0.72	0.23	-101.44
8,676.00	0.85	120.53	8,653.11	-276.57	181.52	330.81	0.40	0.33	19.11
8,767.00	1.04	131.51	8,744.10	-277.46	182.72	332.21	0.29	0.21	12.07
8,857.00	1.18	140.01	8,834.08	-278.71	183.93	333.92	0.24	0.16	9.44
8,948.00	1.67	125.94	8,925.05	-280.21	185.60	336.09	0.66	0.54	-15.46
9,038.00	1.99	131.52	9,015.00	-282.01	187.83	338.82	0.41	0.36	6.20
9,129.00	2.11	136.93	9,105.95	-284.28	190.16	341.99	0.25	0.13	5.95
9,219.00	2.69	145.32	9,195.87	-287.23	192.49	345.74	0.75	0.64	9.32
9,310.00	2.75	152.48	9,286.76	-290.92	194.72	350.04	0.38	0.07	7.87
9,400.00	2.63	158.03	9,376.67	-294.75	196.49	354.22	0.32	-0.13	6.17
9,491.00	2.41	168.44	9,467.58	-298.56	197.65	358.05	0.56	-0.24	11.44
9,577.00	2.79	184.45	9,553.49	-302.42	197.85	361.39	0.95	0.44	18.62
LAST SDI MWD PRODUCTION SURVEY									
9,635.00	2.79	184.45	9,611.42	-305.24	197.63	363.63	0.00	0.00	0.00
SDI PROJECTION TO BIT									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
202.00	202.00	0.61	-0.88	FIRST WEATHERFORD MWD SURFACE SURVEY
2,509.00	2,486.87	-241.12	156.86	LAST WEATHERFORD MWD SURFACE SURVEY
2,611.00	2,588.85	-242.70	157.86	FIRST SDI MWD PRODUCTION SURVEY
9,577.00	9,553.49	-302.42	197.85	LAST SDI MWD PRODUCTION SURVEY
9,635.00	9,611.42	-305.24	197.63	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-25J2 Pad
NBU 921-25J2CS**

OH

Design: OH

Survey Report - Geographic

01 March, 2011

Company: Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference: Well NBU 921-25J2CS
Project: Uintah County, UT UTM12	TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
Site: NBU 921-25J2 Pad	MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
Well: NBU 921-25J2CS	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-25J2 Pad, SEC 25 T9S R21E		
Site Position:	Northing:	14,532,105.07 usft	Latitude: 40° 0' 24.930 N
From: Lat/Long	Easting:	2,060,692.75 usft	Longitude: 109° 29' 57.138 W
Position Uncertainty: 0.00 ft	Slot Radius: 13.200 in	Grid Convergence:	0.97 °

Well	NBU 921-25J2CS, 2601' FSL 2596' FEL		
Well Position	+N/-S 0.00 ft	Northing: 14,532,100.19 usft	Latitude: 40° 0' 24.883 N
	+E/-W 0.00 ft	Easting: 2,060,684.15 usft	Longitude: 109° 29' 57.250 W
Position Uncertainty	0.00 ft	Wellhead Elevation: ft	Ground Level: 4,930.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/11/2011	11.12	65.88	52,367

Design	OH				
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth:	0.00		
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	146.95	

Survey Program	Date 03/01/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
5.00	2,509.00	Survey #1 WEATHERFORD MWD SURVE	MWD	MWD - Standard
2,611.00	9,635.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,532,100.19	2,060,684.15	40° 0' 24.883 N	109° 29' 57.250 W
5.00	0.00	0.00	5.00	0.00	0.00	14,532,100.19	2,060,684.15	40° 0' 24.883 N	109° 29' 57.250 W
202.00	0.62	304.70	202.00	0.61	-0.88	14,532,100.78	2,060,683.26	40° 0' 24.889 N	109° 29' 57.261 W
FIRST WEATHERFORD MWD SURFACE SURVEY									
294.00	0.84	140.48	293.99	0.37	-0.86	14,532,100.54	2,060,683.28	40° 0' 24.887 N	109° 29' 57.261 W
388.00	2.69	141.76	387.94	-1.89	0.95	14,532,098.31	2,060,685.12	40° 0' 24.864 N	109° 29' 57.237 W
483.00	3.81	132.05	482.79	-5.76	4.67	14,532,094.51	2,060,688.91	40° 0' 24.826 N	109° 29' 57.190 W
578.00	5.00	139.92	577.51	-11.04	9.68	14,532,089.31	2,060,694.01	40° 0' 24.774 N	109° 29' 57.125 W
674.00	6.50	144.17	673.02	-18.65	15.56	14,532,081.80	2,060,700.01	40° 0' 24.699 N	109° 29' 57.050 W
769.00	7.56	145.67	767.31	-28.17	22.23	14,532,072.40	2,060,706.84	40° 0' 24.605 N	109° 29' 56.964 W
864.00	8.75	149.05	861.35	-39.53	29.47	14,532,061.16	2,060,714.28	40° 0' 24.492 N	109° 29' 56.871 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25J2 Pad
Well: NBU 921-25J2CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25J2CS
TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
959.00	10.13	152.30	955.06	-53.12	37.07	14,532,047.70	2,060,722.10	40° 0' 24.358 N	109° 29' 56.773 W	
1,053.00	10.88	152.17	1,047.48	-68.29	45.05	14,532,032.67	2,060,730.34	40° 0' 24.208 N	109° 29' 56.671 W	
1,148.00	11.44	151.92	1,140.69	-84.53	53.67	14,532,016.58	2,060,739.23	40° 0' 24.048 N	109° 29' 56.560 W	
1,243.00	10.31	148.05	1,233.98	-100.05	62.61	14,532,001.20	2,060,748.43	40° 0' 23.894 N	109° 29' 56.445 W	
1,339.00	10.00	148.55	1,328.48	-114.45	71.50	14,531,986.95	2,060,757.56	40° 0' 23.752 N	109° 29' 56.331 W	
1,434.00	10.55	145.55	1,421.95	-128.66	80.73	14,531,972.90	2,060,767.03	40° 0' 23.611 N	109° 29' 56.212 W	
1,528.00	11.20	143.71	1,514.26	-143.12	91.00	14,531,958.62	2,060,777.54	40° 0' 23.469 N	109° 29' 56.080 W	
1,622.00	11.44	145.05	1,606.44	-158.12	101.74	14,531,943.81	2,060,788.53	40° 0' 23.320 N	109° 29' 55.942 W	
1,718.00	10.00	144.80	1,700.76	-172.73	112.00	14,531,929.37	2,060,799.04	40° 0' 23.176 N	109° 29' 55.810 W	
1,813.00	8.25	144.67	1,794.55	-185.03	120.70	14,531,917.21	2,060,807.94	40° 0' 23.054 N	109° 29' 55.698 W	
1,907.00	7.63	150.67	1,887.65	-195.98	127.65	14,531,906.39	2,060,815.08	40° 0' 22.946 N	109° 29' 55.609 W	
2,003.00	7.50	147.55	1,982.82	-206.82	134.14	14,531,895.66	2,060,821.75	40° 0' 22.839 N	109° 29' 55.526 W	
2,098.00	7.00	143.67	2,077.06	-216.71	140.89	14,531,885.88	2,060,828.67	40° 0' 22.741 N	109° 29' 55.439 W	
2,193.00	5.44	145.67	2,171.50	-225.10	146.86	14,531,877.60	2,060,834.78	40° 0' 22.658 N	109° 29' 55.362 W	
2,288.00	4.13	149.30	2,266.16	-231.76	151.15	14,531,871.01	2,060,839.18	40° 0' 22.592 N	109° 29' 55.307 W	
2,382.00	3.19	149.17	2,359.97	-236.91	154.22	14,531,865.90	2,060,842.33	40° 0' 22.541 N	109° 29' 55.267 W	
2,477.00	1.75	147.30	2,454.88	-240.41	156.36	14,531,862.45	2,060,844.53	40° 0' 22.507 N	109° 29' 55.240 W	
2,509.00	1.38	141.55	2,486.87	-241.12	156.86	14,531,861.75	2,060,845.04	40° 0' 22.500 N	109° 29' 55.233 W	
LAST WEATHERFORD MWD SURFACE SURVEY										
2,611.00	0.75	159.11	2,588.85	-242.70	157.86	14,531,860.18	2,060,846.07	40° 0' 22.484 N	109° 29' 55.221 W	
FIRST SDI MWD PRODUCTION SURVEY										
2,702.00	1.11	147.17	2,679.84	-244.00	158.55	14,531,858.89	2,060,846.78	40° 0' 22.471 N	109° 29' 55.212 W	
2,792.00	1.94	87.60	2,769.81	-244.67	160.55	14,531,858.26	2,060,848.79	40° 0' 22.465 N	109° 29' 55.186 W	
2,883.00	2.62	70.15	2,860.74	-243.90	164.04	14,531,859.09	2,060,852.27	40° 0' 22.472 N	109° 29' 55.141 W	
2,973.00	2.22	69.39	2,950.66	-242.59	167.61	14,531,860.46	2,060,855.81	40° 0' 22.485 N	109° 29' 55.095 W	
3,064.00	1.73	67.09	3,041.60	-241.43	170.52	14,531,861.66	2,060,858.71	40° 0' 22.497 N	109° 29' 55.058 W	
3,154.00	1.44	72.32	3,131.57	-240.56	172.85	14,531,862.57	2,060,861.02	40° 0' 22.505 N	109° 29' 55.028 W	
3,245.00	0.85	85.28	3,222.55	-240.16	174.61	14,531,863.01	2,060,862.78	40° 0' 22.509 N	109° 29' 55.005 W	
3,336.00	0.78	109.37	3,313.54	-240.31	175.87	14,531,862.88	2,060,864.04	40° 0' 22.508 N	109° 29' 54.989 W	
3,426.00	0.81	146.99	3,403.53	-241.04	176.80	14,531,862.16	2,060,864.98	40° 0' 22.501 N	109° 29' 54.977 W	
3,517.00	0.91	157.59	3,494.52	-242.25	177.42	14,531,860.96	2,060,865.62	40° 0' 22.489 N	109° 29' 54.969 W	
3,607.00	1.01	168.63	3,584.51	-243.69	177.85	14,531,859.53	2,060,866.07	40° 0' 22.474 N	109° 29' 54.964 W	
3,697.00	1.24	177.01	3,674.49	-245.44	178.06	14,531,857.78	2,060,866.31	40° 0' 22.457 N	109° 29' 54.961 W	
3,788.00	0.44	151.55	3,765.48	-246.73	178.28	14,531,856.50	2,060,866.55	40° 0' 22.444 N	109° 29' 54.958 W	
3,879.00	0.71	149.46	3,856.48	-247.52	178.73	14,531,855.71	2,060,867.02	40° 0' 22.437 N	109° 29' 54.952 W	
3,969.00	1.20	169.04	3,946.47	-248.93	179.19	14,531,854.31	2,060,867.50	40° 0' 22.423 N	109° 29' 54.946 W	
4,060.00	0.87	130.41	4,037.45	-250.31	179.90	14,531,852.94	2,060,868.23	40° 0' 22.409 N	109° 29' 54.937 W	
4,150.00	0.85	161.00	4,127.44	-251.39	180.64	14,531,851.88	2,060,868.99	40° 0' 22.398 N	109° 29' 54.928 W	
4,241.00	1.01	163.12	4,218.43	-252.79	181.09	14,531,850.48	2,060,869.46	40° 0' 22.384 N	109° 29' 54.922 W	
4,331.00	0.63	196.67	4,308.42	-254.02	181.18	14,531,849.25	2,060,869.57	40° 0' 22.372 N	109° 29' 54.921 W	
4,422.00	1.06	178.70	4,399.41	-255.34	181.05	14,531,847.93	2,060,869.47	40° 0' 22.359 N	109° 29' 54.923 W	
4,512.00	1.14	226.84	4,489.40	-256.79	180.42	14,531,846.47	2,060,868.86	40° 0' 22.345 N	109° 29' 54.931 W	
4,603.00	1.34	205.67	4,580.38	-258.37	179.30	14,531,844.88	2,060,867.77	40° 0' 22.329 N	109° 29' 54.945 W	
4,694.00	0.54	142.65	4,671.36	-259.67	179.10	14,531,843.57	2,060,867.59	40° 0' 22.317 N	109° 29' 54.948 W	
4,784.00	0.87	172.25	4,761.36	-260.68	179.45	14,531,842.57	2,060,867.96	40° 0' 22.307 N	109° 29' 54.943 W	
4,875.00	1.08	174.52	4,852.34	-262.22	179.62	14,531,841.03	2,060,868.16	40° 0' 22.291 N	109° 29' 54.941 W	
4,965.00	0.34	56.57	4,942.34	-262.92	179.92	14,531,840.34	2,060,868.47	40° 0' 22.284 N	109° 29' 54.937 W	
5,056.00	0.74	48.32	5,033.34	-262.38	180.59	14,531,840.89	2,060,869.13	40° 0' 22.290 N	109° 29' 54.928 W	
5,146.00	0.66	90.01	5,123.33	-261.99	181.54	14,531,841.29	2,060,870.07	40° 0' 22.294 N	109° 29' 54.916 W	
5,237.00	0.54	108.41	5,214.32	-262.13	182.47	14,531,841.17	2,060,871.01	40° 0' 22.292 N	109° 29' 54.904 W	
5,327.00	0.49	119.44	5,304.32	-262.45	183.21	14,531,840.86	2,060,871.75	40° 0' 22.289 N	109° 29' 54.895 W	
5,418.00	0.70	151.93	5,395.32	-263.13	183.81	14,531,840.19	2,060,872.36	40° 0' 22.282 N	109° 29' 54.887 W	
5,508.00	0.81	149.17	5,485.31	-264.16	184.39	14,531,839.17	2,060,872.96	40° 0' 22.272 N	109° 29' 54.880 W	
5,598.00	0.79	161.91	5,575.30	-265.30	184.91	14,531,838.04	2,060,873.50	40° 0' 22.261 N	109° 29' 54.873 W	
5,689.00	0.90	167.58	5,666.29	-266.59	185.26	14,531,836.75	2,060,873.87	40° 0' 22.248 N	109° 29' 54.868 W	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25J2 Pad
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Local Co-ordinate Reference: Well NBU 921-25J2CS
TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,779.00	1.19	189.39	5,756.27	-268.21	185.26	14,531,835.14	2,060,873.90	40° 0' 22.232 N	109° 29' 54.868 W	
5,870.00	0.17	277.30	5,847.27	-269.12	184.97	14,531,834.22	2,060,873.62	40° 0' 22.223 N	109° 29' 54.872 W	
5,961.00	0.87	3.44	5,938.26	-268.41	184.88	14,531,834.93	2,060,873.52	40° 0' 22.230 N	109° 29' 54.873 W	
6,051.00	0.35	345.29	6,028.26	-267.47	184.85	14,531,835.87	2,060,873.48	40° 0' 22.239 N	109° 29' 54.874 W	
6,142.00	0.50	292.58	6,119.26	-267.04	184.41	14,531,836.29	2,060,873.03	40° 0' 22.244 N	109° 29' 54.879 W	
6,232.00	0.36	261.90	6,209.25	-266.93	183.77	14,531,836.39	2,060,872.39	40° 0' 22.245 N	109° 29' 54.888 W	
6,322.00	0.42	234.43	6,299.25	-267.17	183.22	14,531,836.15	2,060,871.84	40° 0' 22.242 N	109° 29' 54.895 W	
6,413.00	0.68	209.59	6,390.25	-267.83	182.69	14,531,835.47	2,060,871.32	40° 0' 22.236 N	109° 29' 54.902 W	
6,503.00	0.64	206.15	6,480.24	-268.74	182.20	14,531,834.55	2,060,870.85	40° 0' 22.227 N	109° 29' 54.908 W	
6,594.00	1.28	193.15	6,571.23	-270.19	181.75	14,531,833.10	2,060,870.42	40° 0' 22.213 N	109° 29' 54.914 W	
6,685.00	0.12	59.87	6,662.22	-271.13	181.60	14,531,832.15	2,060,870.28	40° 0' 22.203 N	109° 29' 54.916 W	
6,775.00	0.24	133.57	6,752.22	-271.22	181.81	14,531,832.07	2,060,870.50	40° 0' 22.202 N	109° 29' 54.913 W	
6,866.00	0.34	122.72	6,843.22	-271.49	182.18	14,531,831.80	2,060,870.87	40° 0' 22.200 N	109° 29' 54.908 W	
6,956.00	0.59	167.25	6,933.22	-272.09	182.51	14,531,831.21	2,060,871.21	40° 0' 22.194 N	109° 29' 54.904 W	
7,047.00	0.70	159.03	7,024.21	-273.07	182.81	14,531,830.24	2,060,871.53	40° 0' 22.184 N	109° 29' 54.900 W	
7,137.00	0.99	164.97	7,114.20	-274.33	183.21	14,531,828.98	2,060,871.95	40° 0' 22.172 N	109° 29' 54.895 W	
7,228.00	0.41	233.61	7,205.20	-275.28	183.15	14,531,828.03	2,060,871.90	40° 0' 22.162 N	109° 29' 54.896 W	
7,318.00	0.81	272.38	7,295.19	-275.45	182.25	14,531,827.85	2,060,871.01	40° 0' 22.161 N	109° 29' 54.907 W	
7,409.00	0.93	236.15	7,386.18	-275.83	181.00	14,531,827.44	2,060,869.76	40° 0' 22.157 N	109° 29' 54.923 W	
7,499.00	1.23	340.22	7,476.17	-275.33	180.07	14,531,827.93	2,060,868.82	40° 0' 22.162 N	109° 29' 54.935 W	
7,590.00	0.73	324.32	7,567.16	-273.94	179.40	14,531,829.31	2,060,868.13	40° 0' 22.175 N	109° 29' 54.944 W	
7,680.00	0.75	337.10	7,657.15	-272.93	178.83	14,531,830.31	2,060,867.55	40° 0' 22.185 N	109° 29' 54.951 W	
7,771.00	0.27	306.26	7,748.15	-272.26	178.43	14,531,830.98	2,060,867.13	40° 0' 22.192 N	109° 29' 54.956 W	
7,862.00	0.31	57.76	7,839.15	-272.00	178.46	14,531,831.24	2,060,867.16	40° 0' 22.195 N	109° 29' 54.956 W	
7,952.00	0.31	72.75	7,929.14	-271.79	178.90	14,531,831.44	2,060,867.60	40° 0' 22.197 N	109° 29' 54.950 W	
8,043.00	0.50	136.82	8,020.14	-272.01	179.41	14,531,831.24	2,060,868.11	40° 0' 22.195 N	109° 29' 54.944 W	
8,133.00	1.01	153.46	8,110.13	-273.01	180.03	14,531,830.25	2,060,868.75	40° 0' 22.185 N	109° 29' 54.936 W	
8,224.00	0.84	168.99	8,201.12	-274.38	180.52	14,531,828.89	2,060,869.26	40° 0' 22.171 N	109° 29' 54.929 W	
8,314.00	0.55	235.56	8,291.12	-275.27	180.29	14,531,827.99	2,060,869.04	40° 0' 22.162 N	109° 29' 54.932 W	
8,405.00	0.20	88.92	8,382.12	-275.52	180.09	14,531,827.74	2,060,868.85	40° 0' 22.160 N	109° 29' 54.935 W	
8,495.00	0.34	195.64	8,472.12	-275.77	180.17	14,531,827.49	2,060,868.94	40° 0' 22.157 N	109° 29' 54.934 W	
8,586.00	0.55	103.33	8,563.11	-276.13	180.52	14,531,827.14	2,060,869.29	40° 0' 22.154 N	109° 29' 54.929 W	
8,676.00	0.85	120.53	8,653.11	-276.57	181.52	14,531,826.72	2,060,870.30	40° 0' 22.149 N	109° 29' 54.917 W	
8,767.00	1.04	131.51	8,744.10	-277.46	182.72	14,531,825.85	2,060,871.51	40° 0' 22.141 N	109° 29' 54.901 W	
8,857.00	1.18	140.01	8,834.08	-278.71	183.93	14,531,824.61	2,060,872.74	40° 0' 22.128 N	109° 29' 54.886 W	
8,948.00	1.67	125.94	8,925.05	-280.21	185.60	14,531,823.15	2,060,874.44	40° 0' 22.114 N	109° 29' 54.864 W	
9,038.00	1.99	131.52	9,015.00	-282.01	187.83	14,531,821.38	2,060,876.70	40° 0' 22.096 N	109° 29' 54.835 W	
9,129.00	2.11	136.93	9,105.95	-284.28	190.16	14,531,819.15	2,060,879.07	40° 0' 22.073 N	109° 29' 54.805 W	
9,219.00	2.69	145.32	9,195.87	-287.23	192.49	14,531,816.24	2,060,881.45	40° 0' 22.044 N	109° 29' 54.775 W	
9,310.00	2.75	152.48	9,286.76	-290.92	194.72	14,531,812.59	2,060,883.73	40° 0' 22.008 N	109° 29' 54.747 W	
9,400.00	2.63	158.03	9,376.67	-294.75	196.49	14,531,808.79	2,060,885.57	40° 0' 21.970 N	109° 29' 54.724 W	
9,491.00	2.41	168.44	9,467.58	-298.56	197.65	14,531,805.00	2,060,886.80	40° 0' 21.932 N	109° 29' 54.709 W	
9,577.00	2.79	184.45	9,553.49	-302.42	197.85	14,531,801.14	2,060,887.06	40° 0' 21.894 N	109° 29' 54.707 W	
LAST SDI MWD PRODUCTION SURVEY										
9,635.00	2.79	184.45	9,611.42	-305.24	197.63	14,531,798.32	2,060,886.89	40° 0' 21.866 N	109° 29' 54.709 W	
SDI PROJECTION TO BIT										

Company: Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference: Well NBU 921-25J2CS	
Project: Uintah County, UT UTM12	TVD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)	
Site: NBU 921-25J2 Pad	MD Reference: GL 4930 & RKB 14' @ 4944.00ft (ENSIGN 139)	
Well: NBU 921-25J2CS	North Reference: True	
Wellbore: OH	Survey Calculation Method: Minimum Curvature	
Design: OH	Database: EDM5000-RobertS-Local	

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
202.00	202.00	0.61	-0.88	FIRST WEATHERFORD MWD SURFACE SURVEY
2,509.00	2,486.87	-241.12	156.86	LAST WEATHERFORD MWD SURFACE SURVEY

Checked By: _____	Approved By: _____	Date: _____
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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 ST
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2601 FSL 2596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S	8. WELL NAME and NUMBER: NBU 921-25J2CS
PHONE NUMBER: 720 929-6511	9. API NUMBER: 43047512760000
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	COUNTY: UINTAH
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/19/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests authorization to recomplete the subject well in the WASATCH formation. Please see the attached procedure.

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: June 20, 2013

By: 

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 6/19/2013	



Greater Natural Buttes Unit

**NBU 921-25J2CS
RE-COMPLETIONS PROCEDURE
NBU 921-25J2 PAD
FIELD ID: YELLOW WELL**

**DATE: 5/29/13
AFE#:
API#: 4304751276
USER ID: VYI537 (Frac Invoices Only)**

**COMPLETIONS ENGINEER: Paul Ryza , Denver, CO
(720) 929-6915 (Office)
(936) 499-6895 (Cell)**

REMEMBER SAFETY FIRST!

Name: NBU 921-25J2CS
Location: SW NW NW SE Sec 25 T9S R21E
LAT: 40.006877 **LONG:** -109.499922 **COORDINATE:** NAD83 (*Surface Location*)
Uintah County, UT
Date: 5/29/13

ELEVATIONS: 4930' GL 4944' KB *Frac Registry TVD: 9611'*

TOTAL DEPTH: 9635' **PBTD:** 9580'
SURFACE CASING: 8 5/8", 28# J-55 LTC @ 2587'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BTC @ 9625'
 Marker Joint **4691-4706' & 7398-7414'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl./ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1394' Green River Top
 1741' Bird's Nest Top
 4702' Wasatch Top
 7402' Mesaverde Top
 *Based on latest geological interpretation

BOTTOMS:

7402' Wasatch Bottom
 9635' Mesaverde Bottom (TD)

T.O.C. @ 5600'

**Based on latest interpretation of CBL

GENERAL NOTES:

- **Please note that:**
 - All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.
 - CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.
- A minimum of **15** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburton's CBL log dated **3/19/11**.
- **6** fracturing stages required for coverage.
- Hydraulic isolation estimated at **5650'** based upon Halliburton's CBL dated 3/19/11.
- Procedure calls for **7** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**
- **This is a NO Clay stabilizer pilot *** Please Do NOT pump Clay Stabilizer *****

- **This is a Reduced Surfactant pilot *** Please pump Surfactant at 0.75 gpt*****
- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200 psi.**
- **If casing pressure test fails (pressure loss of 1.5% psi or more), retest for 15 minutes. If pressure loss of 1.5% more on second test, notify Denver engineers. Record in Openwells. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation. Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes (specific details on remediation should be documented in OpenWells).**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Wasatch 2 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)
- **TIGHT SPACING ON STAGE 1, 2, 3, 4 & 5- OVERFLUSH BY 5 BBLs**
- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**

Existing Perforations:

PERFORATIONS						
Formation	Zone	Top	Btm	spf	Shots	Date
MESAVERDE		7417	7418	4	4	04/18/2011
MESAVERDE		7451	7453	4	8	04/18/2011
MESAVERDE		7470	7471	4	4	04/18/2011
MESAVERDE		7483	7484	4	4	04/18/2011
MESAVERDE		7495	7496	4	4	04/18/2011
MESAVERDE		7578	7579	4	4	04/18/2011
MESAVERDE		7598	7597	4	4	04/18/2011
MESAVERDE		7620	7621	4	4	04/18/2011
MESAVERDE		7645	7646	4	4	04/18/2011
MESAVERDE		7728	7730	4	8	04/18/2011
MESAVERDE		7810	7811	4	4	04/18/2011
MESAVERDE		7829	7830	3	3	04/18/2011
MESAVERDE		7870	7871	4	4	04/18/2011
MESAVERDE		7982	7983	3	3	04/18/2011
MESAVERDE		8003	8004	3	3	04/18/2011
MESAVERDE		8078	8077	3	3	04/18/2011
MESAVERDE		8101	8102	4	4	04/18/2011
MESAVERDE		8255	8256	4	4	04/18/2011
MESAVERDE		8364	8365	4	4	04/18/2011
MESAVERDE		8382	8384	3	6	04/18/2011
MESAVERDE		8426	8428	4	8	04/18/2011
MESAVERDE		8502	8503	4	4	04/18/2011
MESAVERDE		8536	8537	4	4	04/18/2011
MESAVERDE		8570	8571	4	4	04/18/2011
MESAVERDE		8702	8703	4	4	04/18/2011
MESAVERDE		8762	8764	4	8	04/18/2011
MESAVERDE		8811	8812	4	4	04/18/2011
MESAVERDE		8861	8862	2	2	04/18/2011
MESAVERDE		8889	8890	3	3	04/18/2011
MESAVERDE		8954	8955	2	2	04/18/2011
MESAVERDE		8986	8987	4	4	04/18/2011
MESAVERDE		9006	9007	3	3	04/18/2011
MESAVERDE		9030	9031	3	3	04/18/2011
MESAVERDE		9052	9053	3	3	04/18/2011
MESAVERDE		9106	9107	2	2	04/18/2011
MESAVERDE		9138	9139	3	3	04/18/2011
MESAVERDE		9156	9157	3	3	04/18/2011
MESAVERDE		9184	9185	3	3	04/18/2011
MESAVERDE		9260	9261	4	4	04/18/2011
MESAVERDE		9333	9334	3	3	04/18/2011
MESAVERDE		9400	9401	3	3	04/18/2011
MESAVERDE		9424	9425	3	3	04/18/2011

Relevant History:

- 4/18/11: Originally completed in Mesaverde formation (7 stages) with ~ 305,903 gallons of Slickwater, 242,678 lbs of 30/50 Ottawa Sand sand and 35,296 lbs of 20/40 Resin coated sand.
- 9/21/12: Last slickline report:
Ran g1 tool set down @ 8780 came out with the bypass plunger ran jdc set down @ 8780 jar on spring for wild came out with the titanium spring ran td set down @ 9543 came out ran scratcher set down @ 8780 beat down for wild went through went out the tubing came out ran 1.9 broach set down @ 8780 came out tubing was clean there was a trace of barium scale on the nipple and there was a lot of heavy barium scale on the spring plunger looks good flowed tubing drop and chase new stainless steel spring and bypass plunger to btm came out rig down.
- 10/26/12: Acidized with 15 gallons EC9573A, 133 gallons of acid, 5 gallons of EC9021A & 5 gallons of EC6106A, pumped down the casing.
- 5/29/13: Tubing Currently Landed @~8794'

H2S History:

Production Date	Gas (avg mcf/day)	Water (avg bbl/day)	Oil (avg bbl/day)	LGR (bbl/Mmcf)	Max H2S Seperator (ppm)
4/30/2013	257.97	18.37	0.67	73.78	
3/31/2013	243.94	16.10	0.61	68.50	
2/28/2013	232.29	14.36	0.50	63.96	
1/31/2013	253.81	17.84	0.71	73.08	
12/31/2012	264.65	18.00	0.68	70.58	
11/30/2012	285.50	23.27	0.03	81.61	
10/31/2012	303.42	23.58	0.00	77.72	0.00
9/30/2012	326.67	24.00	0.00	73.47	0.00
8/31/2012	311.77	23.48	0.00	75.32	
7/31/2012	337.16	26.81	0.13	79.89	
6/30/2012	370.70	51.80	1.00	142.43	
5/31/2012	388.87	51.77	1.23	136.29	
4/30/2012	410.97	51.80	1.13	128.80	
3/31/2012	430.68	48.29	1.58	115.80	
2/29/2012	466.72	39.62	2.66	90.58	
1/31/2012	496.71	86.06	7.61	188.60	
12/31/2011	533.61	109.81	5.03	215.21	
11/30/2011	582.40	111.00	5.73	200.43	
10/31/2011	642.68	81.13	2.35	129.90	3.00
9/30/2011	709.53	74.00	1.47	106.36	3.00
8/31/2011	791.39	74.00	1.65	95.59	0.00
7/31/2011	953.19	134.55	9.42	151.04	0.00
6/30/2011	1227.23	146.20	12.50	129.32	0.00
5/31/2011	1823.19	141.48	12.32	84.36	
4/30/2011	0.00	0.00	0.00	#NA	

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. The tubing is below the proposed CBP depth. TOO H with 2-3/8", 4.7#, J-55 tubing. Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 7412' (40' below proposed CBP). Otherwise P/U a mill and C/O to 7412' (40' below proposed CBP).
4. Set 8000 psi CBP at ~ 7372'. ND BOPs and NU frac valves Test frac valves and casing to to **6200 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve.** Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.

6. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7101	7102	3	3
WASATCH	7143	7144	3	3
WASATCH	7156	7157	3	3
WASATCH	7315	7316	3	3
WASATCH	7324	7325	3	3
WASATCH	7341	7342	3	3

7. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7101' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

8. Set 8000 psi CBP at ~7086'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6943	6944	3	3
WASATCH	6961	6962	3	3
WASATCH	6975	6976	3	3
WASATCH	6989	6990	3	3
WASATCH	7012	7013	3	3
WASATCH	7042	7043	3	3
WASATCH	7057	7058	3	3
WASATCH	7070	7071	3	3

9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6943' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

10. Set 8000 psi CBP at ~6924'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6728	6729	3	3
WASATCH	6791	6792	3	3
WASATCH	6809	6810	3	3
WASATCH	6824	6825	3	3
WASATCH	6846	6847	3	3
WASATCH	6881	6882	3	3
WASATCH	6891	6892	3	3
WASATCH	6903	6904	3	3

11. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6728' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

12. Set 8000 psi CBP at ~6709'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6487	6488	3	3
WASATCH	6502	6503	3	3
WASATCH	6517	6518	3	3
WASATCH	6535	6536	3	3
WASATCH	6551	6552	3	3
WASATCH	6567	6568	3	3
WASATCH	6632	6633	3	3
WASATCH	6678	6679	3	3

13. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6487' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

14. Set 8000 psi CBP at ~6477'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6265	6266	4	4
WASATCH	6393	6394	4	4
WASATCH	6446	6448	3	6
WASATCH	6459	6461	3	6

15. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~6265' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

16. Set 8000 psi CBP at ~6242'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5982	5983	4	4
WASATCH	6067	6068	4	4
WASATCH	6136	6137	4	4
WASATCH	6153	6154	4	4
WASATCH	6211	6212	4	4

17. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~5982' and flush only with recycled water.

18. Set 8000 psi CBP at~5916'.
19. ND Frac Valves, NU and Test BOPs.
20. TIH with 3 7/8" bit, pump off sub, SN and tubing.
21. Drill 6 plugs and clean out to a depth of 7362' (~ 20' below bottom perms).
22. Shear off bit and land tubing at 7071'. Flow back completion load. RDMO.
23. MIRU, POOH tbg and POBS. TIH with POBS.
24. Drill last plug @ 7372' clean out to PBTD at 9580'. Shear off bit and land tubing at ±8794'. This well WILL be commingled at this time. **NOTE: If the CBP between the initial completion and the recompleted sands has been in the well for more than 30 calendar days from the beginning of flowback for the recompletion, a sundry will need to be filed with the state. Contact the Regulatory group to file the sundry prior to commencing work.**
25. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
26. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

Completion Engineer

Paul Ryza: 936/499-6895, 720/929-6915

Production Engineer

Mickey Doherty: 406/491-7294, 435/781-9740

Ronald Trigo: 352/213-6630, 435/781-7037

Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBL 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBL 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBL MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Name NBU 921-25J2CS
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	7101	7102	3	3	7098	to	7344.5
	WASATCH	7143	7144	3	3			
	WASATCH	7156	7157	3	3			
	WASATCH	7315	7316	3	3			
	WASATCH	7324	7325	3	3			
	WASATCH	7341	7342	3	3			
	# of Perfs/stage					18	CBP DEPTH	7,086
2	WASATCH	6943	6944	3	3	6943	to	7079
	WASATCH	6961	6962	3	3			
	WASATCH	6975	6976	3	3			
	WASATCH	6989	6990	3	3			
	WASATCH	7012	7013	3	3			
	WASATCH	7042	7043	3	3			
	WASATCH	7057	7058	3	3			
	WASATCH	7070	7071	3	3			
# of Perfs/stage					24	CBP DEPTH	6,924	
3	WASATCH	6728	6729	3	3	6726	to	6912
	WASATCH	6791	6792	3	3			
	WASATCH	6809	6810	3	3			
	WASATCH	6824	6825	3	3			
	WASATCH	6846	6847	3	3			
	WASATCH	6881	6882	3	3			
	WASATCH	6891	6892	3	3			
	WASATCH	6903	6904	3	3			
# of Perfs/stage					24	CBP DEPTH	6,709	
4	WASATCH	6487	6488	3	3	6486	to	6683
	WASATCH	6502	6503	3	3			
	WASATCH	6517	6518	3	3			
	WASATCH	6535	6536	3	3			
	WASATCH	6551	6552	3	3			
	WASATCH	6567	6568	3	3			
	WASATCH	6632	6633	3	3			
	WASATCH	6678	6679	3	3			
# of Perfs/stage					24	CBP DEPTH	6,477	
5	WASATCH	6265	6266	4	4	6262	to	6467
	WASATCH	6393	6394	4	4			
	WASATCH	6446	6448	3	6			
	WASATCH	6459	6461	3	6			
	# of Perfs/stage				20	CBP DEPTH	6,242	
6	WASATCH	5982	5983	4	4	5981	to	6215
	WASATCH	6067	6068	4	4			
	WASATCH	6136	6137	4	4			
	WASATCH	6153	6154	4	4			
	WASATCH	6211	6212	4	4			
	# of Perfs/stage				20	CBP DEPTH	5,916	
	Totals				130	Total Pay		301.0

Fracturing Schedules
 Name: NBU 921-2542CS
 Slickwater Frac

Casing Size	4.5
Recomplete?	Y
Pad?	Y
ACTIS?	N
Days on Pad?	2
Wells on Pad?	4

Swabbing Days	3
Production Log	0
DRIT	0
GR only	Y
Low Scale	Y
Clay Stab.	N

Enter Number of swabbing days here for recompletes
 Enter 1 if running a Production Log
 Enter Number of DRITs
 Enter Y if only Gamma Ray log was run
 Enter Y if a LOW concentration of Scale Inhibitor will be pumped
 Enter N if there will be NO Clay stabilizer

Copy to new book

Stage	Zone	Perfs Top ft. Bot. ft.	SPF	Holes	Rate BPM	Fluid Type	Initial pdg	Final pdg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	WASATCH	7101 7102	3	3	3 Varied	Pre-Pad & Pump-in test			Slickwater	4,636	4,636	110	110						2
	WASATCH	7143 7144	3	3	0	ISIP and 5 min ISIP			Slickwater	10,711	15,347	145	255	15.0%	0.0%	0	0		3
	WASATCH	7196 7197	3	3	50	Slickwater Pad	0.25	1	Slickwater	20,250	30,961	482	737	50.0%	37.3%	12,656	12,656		10
	WASATCH	7315 7316	3	3	50	Slickwater Ramp		2	Slickwater	45,136	76,097	338	1,075	35.0%	62.7%	21,263	33,919		7
	WASATCH	7325 7326	3	3	50	Slickwater Ramp			Slickwater	14,175	90,272	110	1,185			33,919	33,919		2
	WASATCH	7341 7342	3	3	50	Flush (4-1/2) ISDP and 5 min ISDP			Slickwater	4,636	94,908	110	1,185			33,919	33,919		0
	WASATCH	7143 7144	3	3	0	ISIP and 5 min ISIP			Sand laden Volume	49,771	49,771	110	1,185			628 lbs sand/ft	628		0
	WASATCH	7315 7316	3	3	25.7	<< Above pump time (min)			Sand laden Volume	40,500	40,500					750	750		25
2	WASATCH	6943 6944	3	3	3 Varied	Pump-in test			Slickwater	0	0	0	0						4
	WASATCH	6961 6962	3	3	0	ISIP and 5 min ISIP			Slickwater	8,156	8,156	194	194	15.0%	0.0%	0	0		4
	WASATCH	6975 6976	3	3	50	Slickwater Pad	0.25	1	Slickwater	27,188	35,344	647	842	50.0%	37.3%	16,992	16,992		14
	WASATCH	6990 6991	3	3	50	Slickwater Ramp		2	Slickwater	19,031	54,375	453	1,295	35.0%	62.7%	28,547	45,539		10
	WASATCH	7012 7013	3	3	50	Slickwater Ramp			Slickwater	4,532	58,907	108	1,403			45,539	45,539		2
	WASATCH	7042 7043	3	3	50	Flush (4-1/2) ISDP and 5 min ISDP			Slickwater	4,532	63,439	108	1,403			45,539	45,539		0
	WASATCH	7057 7058	3	3	50	Flush (4-1/2) ISDP and 5 min ISDP			Sand laden Volume	58,907	58,907	108	1,403			628 lbs sand/ft	628		0
	WASATCH	7070 7071	3	3	28.1	<< Above pump time (min)			Sand laden Volume	54,375	54,375					750	750		29
3	WASATCH	6729 6729	3	3	3 Varied	Pump-in test			Slickwater	0	0	0	0						4
	WASATCH	6791 6792	3	3	0	ISIP and 5 min ISIP			Slickwater	7,481	7,481	178	178	15.0%	0.0%	0	0		4
	WASATCH	6809 6810	3	3	50	Slickwater Pad	0.25	1	Slickwater	32,419	39,899	594	772	50.0%	37.3%	15,586	15,586		12
	WASATCH	6825 6825	3	3	50	Slickwater Ramp		2	Slickwater	17,456	57,355	416	1,188	35.0%	62.7%	26,184	41,770		9
	WASATCH	6846 6847	3	3	50	Slickwater Ramp			Slickwater	4,392	61,747	105	1,292			41,770	41,770		2
	WASATCH	6881 6882	3	3	50	Flush (4-1/2) ISDP and 5 min ISDP			Slickwater	4,392	66,139	105	1,292			41,770	41,770		0
	WASATCH	6891 6892	3	3	25.8	<< Above pump time (min)			Sand laden Volume	49,875	49,875					628 lbs sand/ft	628		0
	WASATCH	6903 6904	3	3	25.8	<< Above pump time (min)			Sand laden Volume	49,875	49,875					750	750		27
4	WASATCH	6487 6488	3	3	3 Varied	Pump-in test			Slickwater	0	0	0	0						3
	WASATCH	6502 6503	3	3	0	ISIP and 5 min ISIP			Slickwater	6,075	6,075	145	145	15.0%	0.0%	0	0		3
	WASATCH	6517 6518	3	3	50	Slickwater Pad	0.25	1	Slickwater	20,250	26,325	482	627	50.0%	37.3%	12,656	12,656		10
	WASATCH	6535 6536	3	3	50	Slickwater Ramp		2	Slickwater	14,175	40,500	338	964	35.0%	62.7%	21,263	33,919		7
	WASATCH	6567 6568	3	3	50	Flush (4-1/2) ISDP and 5 min ISDP			Slickwater	4,236	44,735	101	1,065			33,919	33,919		2
	WASATCH	6632 6633	3	3	21.3	<< Above pump time (min)			Sand laden Volume	44,735	44,735	101	1,065			628 lbs sand/ft	628		0
	WASATCH	6679 6679	3	3	21.3	<< Above pump time (min)			Sand laden Volume	40,500	40,500					750	750		22

NBU 921-25J2CS Directional Survey												
MD	TVD	EW	NS	INC	AZI		MD	TVD	EW	NS	INC	AZI
0	0	0.0	0.0	0.0	0.0		4965	4942	179.9	-262.9	0.3	56.6
5	5	0.0	0.0	0.0	0.0		5056	5033	180.6	-262.4	0.7	48.3
202	202	-0.9	0.6	0.6	304.7		5146	5123	181.5	-262.0	0.7	90.0
294	294	-0.9	0.4	0.8	140.5		5237	5214	182.5	-262.1	0.5	108.4
388	388	1.0	-1.9	2.7	141.8		5327	5304	183.2	-262.5	0.5	119.4
483	483	4.7	-5.8	3.8	132.1		5418	5395	183.8	-263.1	0.7	151.9
578	578	9.7	-11.0	5.0	139.9		5508	5485	184.4	-264.2	0.8	149.2
674	673	15.6	-18.7	6.5	144.2		5598	5575	184.9	-265.3	0.8	161.9
769	767	22.2	-28.2	7.6	145.7		5689	5666	185.3	-266.6	0.9	167.6
864	861	29.5	-39.5	8.8	149.1		5779	5756	185.3	-268.2	1.2	189.4
959	955	37.1	-53.1	10.1	152.3		5870	5847	185.0	-269.1	0.2	277.3
1053	1047	45.1	-68.3	10.9	152.2		5961	5938	184.9	-268.4	0.9	3.4
1148	1141	53.7	-84.5	11.4	151.9		6051	6028	184.9	-267.5	0.4	345.3
1243	1234	62.6	-100.1	10.3	148.1		6142	6119	184.4	-267.0	0.5	292.6
1339	1328	71.5	-114.5	10.0	148.6		6232	6209	183.8	-266.9	0.4	261.9
1434	1422	80.7	-128.7	10.6	145.6		6322	6299	183.2	-267.2	0.4	234.4
1528	1514	91.0	-143.1	11.2	143.7		6413	6390	182.7	-267.8	0.7	209.6
1622	1606	101.7	-158.1	11.4	145.1		6503	6480	182.2	-268.7	0.6	206.2
1718	1701	112.0	-172.7	10.0	144.8		6594	6571	181.8	-270.2	1.3	193.2
1813	1795	120.7	-185.0	8.3	144.7		6685	6662	181.6	-271.1	0.1	59.9
1907	1888	127.7	-196.0	7.6	150.7		6775	6752	181.8	-271.2	0.2	133.6
2003	1983	134.1	-206.8	7.5	147.6		6866	6843	182.2	-271.5	0.3	122.7
2098	2077	140.9	-216.7	7.0	143.7		6956	6933	182.5	-272.1	0.6	167.3
2193	2172	146.9	-225.1	5.4	145.7		7047	7024	182.8	-273.1	0.7	159.0
2288	2266	151.2	-231.8	4.1	149.3		7137	7114	183.2	-274.3	1.0	165.0
2382	2360	154.2	-236.9	3.2	149.2		7228	7205	183.2	-275.3	0.4	233.6
2477	2455	156.4	-240.4	1.8	147.3		7318	7295	182.3	-275.5	0.8	272.4
2509	2487	156.9	-241.1	1.4	141.6		7409	7386	181.0	-275.8	0.9	236.2
2611	2589	157.9	-242.7	0.8	159.1		7499	7476	180.1	-275.3	1.2	340.2
2702	2680	158.6	-244.0	1.1	147.2		7590	7567	179.4	-273.9	0.7	324.3
2792	2770	160.6	-244.7	1.9	87.6		7680	7657	178.8	-272.9	0.8	337.1
2883	2861	164.0	-243.9	2.6	70.2		7771	7748	178.4	-272.3	0.3	306.3
2973	2951	167.6	-242.6	2.2	69.4		7862	7839	178.5	-272.0	0.3	57.8
3064	3042	170.5	-241.4	1.7	67.1		7952	7929	178.9	-271.8	0.3	72.8
3154	3132	172.9	-240.6	1.4	72.3		8043	8020	179.4	-272.0	0.5	136.8
3245	3223	174.6	-240.2	0.9	85.3		8133	8110	180.0	-273.0	1.0	153.5
3336	3314	175.9	-240.3	0.8	109.4		8224	8201	180.5	-274.4	0.8	169.0
3426	3404	176.8	-241.0	0.8	147.0		8314	8291	180.3	-275.3	0.6	235.6
3517	3495	177.4	-242.3	0.9	157.6		8405	8382	180.1	-275.5	0.2	88.9
3607	3585	177.9	-243.7	1.0	168.6		8495	8472	180.2	-275.8	0.3	195.6
3697	3674	178.1	-245.4	1.2	177.0		8586	8563	180.5	-276.1	0.6	103.3
3788	3765	178.3	-246.7	0.4	151.6		8676	8653	181.5	-276.6	0.9	120.5
3879	3856	178.7	-247.5	0.7	149.5		8767	8744	182.7	-277.5	1.0	131.5
3969	3946	179.2	-248.9	1.2	169.0		8857	8834	183.9	-278.7	1.2	140.0
4060	4037	179.9	-250.3	0.9	130.4		8948	8925	185.6	-280.2	1.7	125.9
4150	4127	180.6	-251.4	0.9	161.0		9038	9015	187.8	-282.0	2.0	131.5
4241	4218	181.1	-252.8	1.0	163.1		9129	9106	190.2	-284.3	2.1	136.9
4331	4308	181.2	-254.0	0.6	196.7		9219	9196	192.5	-287.2	2.7	145.3
4422	4399	181.1	-255.3	1.1	178.7		9310	9287	194.7	-290.9	2.8	152.5
4512	4489	180.4	-256.8	1.1	226.8		9400	9377	196.5	-294.8	2.6	158.0
4603	4580	179.3	-258.4	1.3	205.7		9491	9468	197.7	-298.6	2.4	168.4
4694	4671	179.1	-259.7	0.5	142.7		9577	9553	197.9	-302.4	2.8	184.5
4784	4761	179.5	-260.7	0.9	172.3		9635	9611	197.6	-305.2	2.8	184.5
4875	4852	179.6	-262.2	1.1	174.5							

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 ST	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 921-25J2CS	
9. API NUMBER: 43047512760000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
COUNTY: UINTAH	
STATE: UTAH	

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Gas Well	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2601 FSL 2596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/30/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT FILE WAS PLACED ON PRODUCTION ON 09/30/2013. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

FOR RECORD ONLY

November 12, 2013

NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUMBER 720 929 6582	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/12/2013	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER:
UO 1194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-25J2CS

9. API NUMBER:
4304751276

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NWSE 25 9S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER **RECOMPLETION**

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217 PHONE NUMBER: (720) 929-6000

14. DATE SPUNDED: 12/7/2010 15. DATE T.D. REACHED: 2/26/2011 16. DATE COMPLETED: 9/30/2013 ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
4944 RKB

18. TOTAL DEPTH: MD 9,635 TVD 9,611 19. PLUG BACK T.D.: MD 9,582 TVD 9,558 20. IF MULTIPLE COMPLETIONS, HOW MANY? * 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
ACBL-CHI TRIPLE COMBO

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7		40		28			
11"	8 5/8" J-55	28#		2,587		460		0	
7 7/8"	4 1/2" I-80	11.6#		9,625		1,570		5600	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,713							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,982	7,342			5,982 7,342	0.36	130	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5982-7342	PUMP 6,530 BBLs SLICK H2O & 192,736 LBS 30/50 MESH SAND 6 STAGES

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:
PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 9/30/2013	TEST DATE: 10/16/2013	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 1	GAS – MCF: 463	WATER – BBL: 0	PROD. METHOD: FLOWING
CHOKES SIZE: 38/64	TBG. PRESS. 142	CSG. PRESS. 558	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKES SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKES SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKES SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

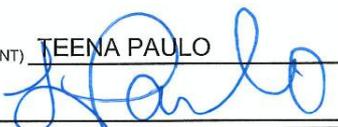
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,394
				BIRD'S NEST	1,741
				WASATCH	4,702
				MESAVERDE	7,402

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. New recompletion perforations are: Wasatch 5982-7342; existing perforations: Mesaverde 7417-9425. The Iso plug separating new perforations from old perforations was set at 7372 and drilled out on 9/26/13. The well is fully commingled.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) TEENA PAULO TITLE STAFF REGULATORY SPECIALIST
 SIGNATURE  DATE 11-15-2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
 1594 West North Temple, Suite 1210
 Box 145801
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
 Fax: 801-359-3940

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 921-25J2CS YELLOW			Spud Conductor: 12/7/2010			Spud Date: 1/8/2011		
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD			Rig Name No:		
Event: RECOMPL/RESERVEADD			Start Date: 7/30/2013			End Date: 9/27/2013		
Active Datum: RKB @4,944.00usft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/10/2013	7:00 - 7:30	0.50		48		P		HSM, MOVING RIG & EQUIP ON MUDDY ROADS.
	7:30 - 13:30	6.00	MIRU	30	A	P		MOVED RIG F/ NBU 1022-12P1BS, HAD TIGHT LOCATION & MUDDY, GOT RIG & EQUIP SPOTTED, RIGGED UP. CONTROL TBG W/ 20 BBLS T-MAC, ND WH NU BOPS, RU FLOOR & EQUIP.
	13:30 - 15:30	2.00	SUBSPR	45	A	P		CONTROL CSG W/ 30 BBLS T-MAC.UNLAND L/D HANGER. RU SCANTECH.
	15:30 - 17:00	1.50	SUBSPR	45	A	P		SCAN OUT & S.L.M. W/ 35 JTS 23/8 L-80. SWI SDFN
9/11/2013	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, WORKING W/ SCAN TECH & L/D TBG ON FLOAT OFF HIGH FLOOR.
	7:30 - 16:30	9.00	SUBSPR	31	I	P		SICP 380, CONTROL TBG W/ 20 BBLS, SCAN OUT & S.L.M. REM 242 JTS 23/8 L-80 TBG. 275 YELLOW, 1 BLUE, 1 RED. HEAVEY SCALE ON OD F/ 7506' TO 8794' EOT, RD SCAN TECH.RU CASED HOLE, RIH W/ 41/2 GAUGE RING, TO 7450', RIH SET 41/2 10K CBP @ 7372', RD WL, ND BOPS NU FV, FILL & TEST CSG & FV TO 6200 PSI FOR 15 MIN, GAINED 40 PSI, RD TEST TRUCK SWI SDFN.
9/13/2013	6:00 - 6:15	0.25		48		P		HSM
	6:30 - 9:00	2.50		37	C	P		MIRU CASED HOLE SOLUTION PERFORATE AS PER DESIGN
9/16/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA
	7:15 - 13:45	6.50	FRAC	36	H	P		FRAC STG #1)WHP 223 PSI, BRK 4591 PSI @ 4.7 BPM. ISIP 1809 PSI, FG. 0.69 ISIP 2653 PSI, FG. 0.81, NPI 844 PSI, X/O TO WL. SET CBP & PERF STG #2 AS DESIGNED, X/O TO FRAC. FRAC STG #2)WHP 1902 PSI, BRK 2582 PSI @ 3.9 BPM. ISIP 2082 PSI, FG. 0.74 ISIP 2328 PSI, FG. 0.77, NPI 246 PSI, X/O TO WL. SET CBP & PERF STG #3 AS DESIGNED, X/O TO FRAC. FRAC STG #3)WHP 908 PSI, BRK 4145 PSI @ 4.5 BPM. ISIP 2190 PSI, FG. 0.76 ISIP 2187 PSI, FG. 0.76, NPI -3 PSI, X/O TO WL. SET CBP & PERF STG #4 AS DESIGNED, X/O TO FRAC. FRAC EQUIP REPAIR
	13:45 - 14:25	0.67	FRAC	46	E	Z		
	14:25 - 17:00	2.58	FRAC	36	E	P		FRAC STG #4)WHP 1204 PSI, BRK 2844 PSI @ 4.8 BPM. ISIP 1845 PSI, FG. 0.72 ISIP 1771 PSI, FG. 0.71, NPI -74 PSI, X/O TO WL. SET CBP & PERF STG #5 AS DESIGNED, SWI, SDFN.
9/17/2013	6:15 - 6:30	0.25		48		P		HSM,

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 921-25J2CS YELLOW			Spud Conductor: 12/7/2010			Spud Date: 1/8/2011		
Project: UTAH-UIINTAH			Site: NBU 921-25J2 PAD			Rig Name No:		
Event: RECOMPL/RESEREVEADD			Start Date: 7/30/2013			End Date: 9/27/2013		
Active Datum: RKB @4,944.00usft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2801/E/0/2596/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 10:00	3.50		36	H	P		FRAC STG #5] WHP=755#, BRK DN PERFS=3093#, @=4.0 BPM, INTIAL ISIP=1462#, FG=.67, FINAL ISIP=1693#, FG=.70, SET PLUG AND PERFORATE STG #6 FRAC STG #6] WHP=82#, BRK DN PERFS=4225#, @=4.7 BPM, INTIAL ISIP=1175#, FG=.63, FINAL ISIP=1385#, FG=.67, SET KILL PLUG TOTAL WATER=6530 TOTAL SAND=192736 HSM. PINTCH POINTS WHILE PU TBG.
9/25/2013	6:45 - 7:00	0.25	DRLOUT	48		P		
	7:00 - 8:30	1.50	DRLOUT	47	A	P		RD RIG F/ THE NBU 921-25G3CS. SLIDE RIG OVER T/ NBU 921-25J2CS. RU RIG. OPEN WELL 0 PSI. ND WH. NU BOP. RU RIG FLOOR & TBG EQUIP. PREP & TALLY NEW 2 3/8 SPLIT STING TBG.
	8:30 - 13:30	5.00	DRLOUT	31	I	P		PU 3 7/8 MILL, POBS & 1.875 XN-NIP. RIH W/ 186 JTS. TAG SAND @ 5900' = 20' SAND.
	13:30 - 18:00	4.50	DRLOUT	44	C	P		RU DRL EQUIP. FILL TBG W/ 20 BBS T-MAC. PSI TEST BOP T/ 3000 PSI. GOOD TEST. BLEED OFF PSI. RU FU. UNLOAD HOLE. BEG DRL OUT. 1st CBP)TAG SAND @ 5900' = 20' SAND. DRL OUT CBP @ 5916' IN 5 MIN. 100 PSI INCR. CONT RIH. 2nd CBP) TAG SAND @ 6412' = 30' SAND. DRL OUT CBP @ 6442' IN 5 MIN. 50 PSI INCR. CONT RIH. 3rd CBP) TAG SAND @ 6447' = 30' SAND. DRL OUT CBP @ 6477' IN 5 MIN. 50 PSI INCR. CIRC WELL CLEAN W/ FU. SHUT DOWN FU. STD BACK DRL EQUIP. POOH STD BACK 18 JTS. EOT @ 5916'. SWFN.
9/26/2013	6:45 - 7:00	0.25	DRLOUT	48		P		HSM. HIGH PSI LINES.
	7:00 - 8:30	1.50	DRLOUT	31	I	P		SIWP 500 PSI. OPEN WELL. BLOW WELL DOWN T/ FBT. RIH W/ 20 JTS, TAG SAND @ 6670'. RU DRL EQUIP. BRK CONV CIRC.
	8:30 - 18:00	9.50	DRLOUT	44	C	P		4th CBP) TAG SAND @ 6670' = 40' SAND. DRL OUT CBP @ 6709' IN 5 MIN. 0 PSI INCR. CONT RIH. 5th CBP) TAG SAND @ 6900' = 24' SAND. DRL OUT CBP @ 6924' IN 5 MIN. 0 PSI INCR. CONT RIH. 6th CBP) TAG SAND @ 7056' = 30' SAND. DRL OUT CBP @ 7086' IN 5 MIN. 0 PSI INCR. CONT RIH. ISO PLUG = TAG SAND 7342' = 30' SAND. DRL OUT CBP@ 7372' IN 5 MIN. 0 PSI INCR. CONT RIH TAG SCALE @ 8630'. DRL OUT 3 JTS FELL FREE @ 8725'. CONT RIH TAG SCALE @ 8839'. DRL OUT 3 JTS, FELL FREE @ 8934'. STD BACK DRL EQUIP. POOH W/ 24 JTS. SWFN. EOT @ 8173'
9/27/2013	6:45 - 7:00	0.25	DRLOUT	48		P		HSM. HIGH PSI LINES.\

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 921-25J2CS YELLOW			Spud Conductor: 12/7/2010			Spud Date: 1/8/2011			
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD			Rig Name No:			
Event: RECOMPL/RESEREVEADD			Start Date: 7/30/2013			End Date: 9/27/2013			
Active Datum: RKB @4,944.00usft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2601/E/0/2596/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	7:00 - 11:00	4.00	DRLOUT	44	D	P		SICP 950 PSI. OPEN WELL, BLOW WELL DOWN T/ FBT. RIH F/ 8173'. TAG SCALE @ 8965'. BRK CONV CIRC. DRL OUT 2 JTS, FELL FREE @ 9060'. CONT RIH TAG @ 9525' = 100' RAT HOLE. CIRC WELL CLEAN FOR 30 MIN. SHUT DOWN FU. PUMP 15 BBLs T-MAC T/ KILL TBG.	
	11:00 - 15:00	4.00	DRLOUT	31	I	P		RD DRL EQUIP. POOH. LD 26 JTS. PU 4 1/16 TBG HNGR. LAND TBG W/ KB =====> 14.00 4 1/16 TBG HNGR =====> .83 124 JTS L-80 TBG =====> 3938.20 6' PUP JT L-80 =====> 6.16 150 JTS J-55 TBG =====> 4751.95 1.875 XN-NIP =====> 2.20 EOT @ 8713.34 ND BOP. NUWH. DROP BALL. PUMP BIT W/ FU @ 1625 PSI. PURGE CSG & TBG T/ FBT. SVM. RD RIG. SLIDE OVER T/ 25K1CS.	

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc./Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/16/2013 12:00AM	WASATCH/			6,067.0	6,068.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,136.0	6,137.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,153.0	6,154.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,211.0	6,212.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,265.0	6,266.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,393.0	6,394.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,446.0	6,448.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,459.0	6,461.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,487.0	6,488.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,502.0	6,503.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,517.0	6,518.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,535.0	6,536.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,551.0	6,552.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,567.0	6,568.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,632.0	6,633.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,678.0	6,679.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,728.0	6,729.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,791.0	6,792.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,809.0	6,810.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,824.0	6,825.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,846.0	6,847.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/16/2013 12:00AM	WASATCH/			6,881.0	6,882.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			6,891.0	6,892.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			6,903.0	6,904.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			6,943.0	6,944.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			6,961.0	6,962.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			6,975.0	6,976.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			6,989.0	6,990.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			7,012.0	7,013.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			7,042.0	7,043.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			7,057.0	7,058.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			7,070.0	7,071.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			7,101.0	7,102.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			7,143.0	7,144.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			7,156.0	7,157.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			7,315.0	7,316.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			7,324.0	7,325.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/16/2013 12:00AM	WASATCH/			7,341.0	7,342.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots